

Memperbaiki *Vigènere Cipher* dengan Menggunakan Kubus *Vigènere*

Hadi Saloko - 13504157¹⁾

1) Jurusan Teknik Informatika STEI, ITB, Bandung 40132, email: if14157@students.if.itb.ac.id

Abstract – *Vigènere Cipher* sebenarnya dianggap sebagai salah satu cipher yang cukup aman. Akan tetapi, karena pengulangan kunci yang digunakan, timbul suatu kelemahan.

Karena *Vigènere Cipher* termasuk cipher yang paling dikenal, sudah ada begitu banyak variasi yang berusaha menghilangkan kelemahan *Vigènere Cipher*. Tentunya dengan catatan bahwa variasi tersebut tetap mempertahankan kesederhanaan *Vigènere Cipher* sebagai cipher klasik. Akan tetapi, dari sekian banyak variasi, belum ada yang dapat menghilangkan kelemahan sekaligus mempertahankan kesederhanaannya. *One Time Pad Vigènere* termasuk yang paling kuat tetapi dianggap tidak sederhana lagi.

Cipher usulan ini salah satu varian dari *Vigènere Cipher* yang berusaha menghilangkan kelemahan sekaligus mempertahankan kesederhanaannya. Dan ternyata setelah diimplementasikan, cipher usulan ini dirasa kuat, dan masih sederhana (*look-up*). Sehingga prosesnya (*dekripsi* dan *enkripsi*) dapat dilakukan secara manual.

Yang cukup rumit adalah pembuatan Kubus *Vigènere* yang menjadi bagian terpenting dalam cipher usulan ini. Kubus *Vigènere* yang dianggap kuat, telah berhasil dibentuk dengan bantuan program. Kubus ini telah terbukti berhasil diimplementasikan menjadi bagian dari cipher usulan ini.

Kata Kunci: *Vigènere*, cipher, plaintext, ciphertext, look-up.

1. PENDAHULUAN

Vigènere sebenarnya dianggap sebagai salah satu cipher yang cukup aman. Hal ini dikarenakan *Vigènere* sebenarnya sudah menggunakan konsep yang mirip S-box yaitu pada persegi / bujur sangkar *Vigènere*. Dengan adanya tabel substitusi ini, frekuensi kemunculan dari suatu huruf dapat diratakan.

Akan tetapi, karena pengulangan kunci yang digunakan, timbul suatu kelemahan. Kelemahan ini berupa adanya perulangan dalam kemunculan kemunculan dua huruf, triplet, bahkan quadruplet yang muncul dalam ciphertext. Kemunculan yang berulang ini mungkin merupakan kemunculan dua huruf, triplet, dan quadruplet dalam plaintext dengan

jarak yang merupakan kelipatan dari panjang kunci. Dengan mengetahui panjang kunci (menggunakan metode Kasiski), analisis frekuensi dapat diterapkan untuk mengkripanalisis ciphertext yang dienkripsi dengan kunci yang sama (ciphertext yang berjarak sepanjang kunci).

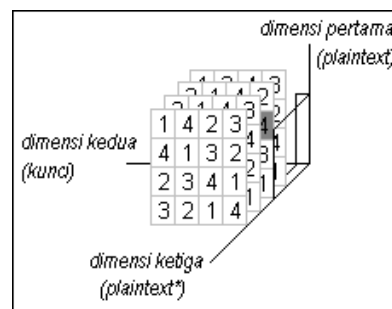
Walupun cukup sederhana (masih dimungkinkan enkripsi-dekripsi secara manual karena berbasiskan look-up table), cipher usulan diharapkan dapat memperbesar keuntungan dalam penggunaan persegi *Vigènere*, sekaligus memperkecil kelemahan dari pengulangan kunci. “Tabel” substitusi yang akan digunakan memiliki lebih dari dua dimensi. Tidak hanya melibatkan plaintext (dimensi pertama) dan kunci (dimensi kedua), tetapi juga melibatkan satu dimensi tambahan (dimensi ketiga) yaitu hasil gabugan dari bagian kunci (mengambil konsep kunci internal) dan plaintext sebelumnya (mengambil konsep *Auto-key Vigènere Cipher*).

2. ANALISIS DAN PERANCANGAN

Usulan perbaikan ini sebenarnya terbagi dalam dua bagian besar. Bagian pertama membahas proses (enkripsi dan dekripsi) yang berjalan, bagian kedua membahas kubus *Vigènere* yang dipakai pada bagian pertama.

2.1. Proses dari cipher usulan

Cipher usulan merupakan varian dari *Vigènere Cipher*. Perbedaan muncul pada jumlah dimensinya. Jika pada *Vigènere* kita akan mengambil nilai (lookup) dari tabel (dua dimensi: plaintext dan kunci), pada cipher usulan kita akan mengambil nilai (lookup) dari datacube (tiga dimensi: plaintext, kunci, dan plaintext*).



Gambar 1: Look-up pada Kubus *Vigènere*

Gambar di atas menunjukkan Kubus *Vigènere* sebagai

pengganti persegi *Vigènere*. Kubus ini harus bersifat sama dengan persegi *Vigènere*, yakni dapat dipakai untuk mengenkripsi sekaligus dekripsi. Proses membentuk kubus *Vigènere* dengan sifat seperti ini (atau lebih baik) akan dibahas di bagian selanjutnya.

Dapat dilihat, $plaintext=3$, kunci=1, $plaintext^*=2$ akan menghasilkan $ciphertext=4$ (berwarna abu-abu).

Dimensi ketiga ($plaintext^*$) adalah huruf ke- n sebelumnya pada plain text, dimana $n = (\text{panjang kunci}) - 1$. Pemilihan n sedemikian rupa ditujukan meminimalkan frekuensi keterulangan pola pada $ciphertext$. Dengan kata lain memperpanjang periode keterulangan pola pada $ciphertext$.

Dengan dimensi tambahan ini, kriptanalisis tidak dapat lagi menggunakan (metode kasiski) analisis kemunculan kemunculan 2 huruf, triplet, dan quadruplet pada $cipher$ text. Dan dengan melibatkan $plaintext$ sebelumnya, kita juga menambahkan sifat diffusion pada *Vigènere Cipher* (walaupun bukan melibatkan feedback berupa $ciphertext$ sebelumnya, seperti kebanyakan algoritma kriptografi moderen).

Dipilih $n = (\text{panjang kunci})-1$ karena n pasti relatif prima terhadap $(n+1)$ (untuk $n>1$). Dengan $cipher$ usulan akan menghasilkan pola keterulangan setiap interval $n*(n+1)$. Pada kasus terburuk (kasus yang paling menguntungkan kriptanalisis), pengulangan pada $ciphertext$ (yang benar merupakan pengulangan di $plaintext$ dan kunci) mempunyai periode minimal = $n*(n+1)$.

Untuk $plaintext^*$ awal, akan mendapat perlakuan khusus (karena tidak mempunyai n huruf sebelumnya pada plain text). Hal ini diatasi dengan menggunakan initiation vector. Initiation vector ini tidak akan dihard code pada program, melainkan pengolahan kunci itu sendiri (mengambil konsep kunci internal). Kunci dibuang satu huruf yang paling depan. Pembuangan satu huruf yang paling depan ditujukan untuk memperkecil keterkaitan dimensi ketiga ($plaintext^*$) dengan dimensi kedua (kunci) di pada n posisi paling depan.

Tabel 1. Proses mengenkrip

plaintext	3	1	4	1	3	3	1	4	2
kunci	1	2	3	1	2	3	1	2	3
plaintext*	2	3	3	1	4	1	3	3	1
ciphertext	4	...							

Gambar di atas menunjukkan dua nilai awal $plaintext^*$ berasal dari kunci (123) yang dibuang satu karakter paling depannya. Selanjutnya, $plaintext^*$ adalah huruf ke-2 (panjang kunci=3) sebelumnya pada $plaintext$.

Sebagai tambahan, dalam *Vigènere*, proses enkripsi dan dekripsi umumnya menggunakan satu persegi

Vigènere yang sama. Akan tetapi dengan membuat suatu persegi *Vigènere* yang lain (yang bersifat inverse dari persegi *Vigènere* pertama), kita dapat mempercepat proses dekripsi. Proses dekripsi satu huruf yang tadinya harus mencari dari n banyak data secara linier (dengan kompleksitas $O(n)$), dapat ditekan menjadi look-up (dengan kompleksitas $O(1)$). Waktu yang diperlukan untuk dekripsi akan lebih cepat (sama dengan enkripsi) sebagai balasan penggunaan memori yang lebih besar.

2.2. Kubus *Vigènere* yang baik

Karena kubus *Vigènere* sebenarnya mirip dengan persegi *Vigènere* (kecuali dalam banyaknya dimensi), pertama-tama kita lihat terlebih dahulu persegi *Vigènere*. Agar dapat digunakan untuk meng-enkripsi dan men-dekripsi, persegi *Vigènere* haruslah memenuhi sifat (syarat minimal) berikut:

- Dimensi pertama ($plaintext$) haruslah berkorespondensi satu ke satu dengan nilai ($ciphertext$).

Artinya, dalam persegi *Vigènere*, suatu $plaintext$ haruslah menentukan $ciphertext$ dan sebaliknya. Untuk dimensi kedua (kunci) yang sama, dimensi pertama ($plaintext$) haruslah menentukan nilai ($ciphertext$). Jika dimensi kedua (kunci) tetap sementara dimensi pertama ($plaintext$) berubah, maka nilai ($ciphertext$) harus berubah. Begitu pula sebaliknya.

Akan tetapi persegi *Vigènere* seperti itu masih kurang bagus karena dimensi kedua (kunci) terlihat kurang berperan. Hal ini bisa kita lihat pada gambar persegi *Vigènere* berikut ini.

Tabel 2. Persegi *Vigènere* yang sangat jelek (sangat lemah)

		dimensi kedua (kunci)				
		a	b	c	d	e
dimensi pertama (plaintext)	a	b	e	a	e	c
	b	d	d	d	d	d
	c	a	b	b	c	e
	d	e	c	e	a	b
	e	c	a	c	b	a

Persegi *Vigènere* di atas memenuhi syarat minimal. Suatu nilai hanya muncul sekali pada satu kolom manapun. Akan tetapi dapat dilihat untuk dimensi kedua (kunci) yang manapun, nilai ($ciphertext$) 'd' akan berkorespondensi dengan dimensi pertama ($plaintext$) 'b'. Untuk seorang kriptanalisis, hal ini dapat dimanfaatkan. Karena persegi *Vigènere* dan algoritmanya adalah hal yang dipublikasikan (diketahui semua orang), kriptanalisis dapat menganalisis persegi *Vigènere* tersebut dan menarik kesimpulan bahwa $ciphertext$ 'd' pasti bersesuaian

dengan *plaintext* 'b'. Tidak peduli apapun kuncinya.

Walaupun contoh di atas merupakan kasus terburuk, akan tetapi kelemahan sejenis dapat dimanfaatkan oleh kriptanalis. Hal ini bisa kita lihat pada gambar persegi *Vigènere* berikut ini.

Tabel 3. Persegi *Vigènere* yang jelek (lemah)

		dimensi kedua (kunci)					
		a	b	c	d	e	
dimensi pertama (plaintext)	a	a	b	e	a	e	c
	b	b	d	d	d	d	e
	c	c	a	b	b	c	d
	d	d	e	c	e	a	b
	e	e	c	a	c	b	a

Persegi *Vigènere* di atas juga memenuhi syarat minimal. Akan tetapi dapat dilihat untuk sebagian besar dimensi kedua (kunci), nilai (*ciphertext*) 'd' akan berkorespondensi dengan dimensi pertama (*plaintext*) 'b'. Dengan alasan yang sama dengan di atas, kriptanalis dapat menganalisis persegi *Vigènere* tersebut dan menarik kesimpulan bahwa *ciphertext* 'd' kemungkinan besar ($4/5 = 80\%$) bersesuaian dengan *plaintext* 'b'.

Persegi *Vigènere* dapat dibuat lebih baik dengan menambahkan sifat berikut:

- Keseluruhan dimensi haruslah berkorespondensi satu ke satu dengan nilai (*cipher*).

Jika satu dimensi berubah sementara dimensi lainnya tetap, nilai (*cipher*) haruslah berubah. Begitu pula sebaliknya.

Contoh persegi *Vigènere* yang lebih baik tersebut dapat dilihat sebagai berikut.

Tabel 4. Persegi *Vigènere* yang baik (kuat)

		dimensi kedua (kunci)					
		a	b	c	d	e	
dimensi pertama (plaintext)	a	a	b	e	a	d	c
	b	b	d	b	e	c	a
	c	c	a	d	c	b	d
	d	d	e	c	d	a	e
	e	e	c	a	b	e	d

Persegi *Vigènere* di atas memenuhi syarat sebagai persegi *Vigènere* yang lebih baik. Suatu nilai hanya muncul sekali pada satu kolom dan baris manapun. Kriptanalis yang menganalisis persegi *Vigènere* tersebut akan mendapatkan kesimpulan yang tidak dapat dipakai untuk mengkriptanalis. Kemungkinan

ciphertext berkorespondensi dengan suatu *plaintext* akan sama besar dengan kemungkinan *ciphertext* (yang sama) berkorespondensi dengan suatu *plaintext* yang lain.

Kubus *Vigènere* yang baik haruslah memiliki sifat yang sejenis dengan persegi *Vigènere* yang baik. Perbedaannya hanyalah pada banyaknya dimensi. Suatu nilai hanya muncul sekali pada satu kolom, baris, dan tingkat kedalaman manapun (lebih banyak 1 dimensi). Pertanyaan selanjutnya, bagaimana cara membentuk kubus *Vigènere* yang baik tersebut?

2.3. Cara Memmbangun kubus *Vigènere* yang baik
Pertama-tama kita bentuk sebuah kubus *Vigènere* yang secara trivial dapat kita pastikan merupakan kubus *Vigènere* yang baik. Contoh kubus *Vigènere* yang baik tersebut dapat dilihat sebagai berikut:

Tabel 5. Kubus *Vigènere* yang baik (kuat) tetapi terpol

Dimensi ketiga (plain*): a

		dimensi kedua (kunci)		
		a	b	c
dimensi pertama (plaintext)	a	a	b	c
	b	b	c	a
	c	c	a	b

Dimensi ketiga (plain*): b

		dimensi kedua (kunci)			
		a	b	c	
dimensi pertama (plaintext)	a	a	b	c	a
	b	b	c	a	b
	c	c	a	b	c

Dimensi ketiga (plain*): c

		dimensi kedua (kunci)			
		a	b	c	
dimensi pertama (plaintext)	a	a	c	a	b
	b	b	a	b	c
	c	c	b	c	a

Dari kubus *Vigènere* yang sudah pasti merupakan kubus *Vigènere* yang baik tersebut, barulah kita transformasi (dengan suatu operator) sedemikian sehingga nilai di dalamnya tidak mempunyai pola, tetapi tetap memenuhi sifat kubus *Vigènere* yang baik.

Transformasi yang dilakukan bisa dengan menukarkan satu layer (sel-sel dalam kubus *Vigènere* yang memiliki satu dimensi yang sama). Misalnya saja menukarkan layer dimensi pertama (*plaintext*)='a' dengan layer dimensi pertama (*plaintext*)='b'. Atau menukarkan layer dimensi kedua (kunci)='b' dengan layer dimensi kedua (kunci)='c'.

Hal ini dapat dibayangkan seperti menukarkan posisi 2 lembar kartu pada setumpukan kartu. Kedua hal tersebut identik kecuali dalam banyaknya jenis layer. Pada tumpukan kartu hanya ada 1 jenis layer, sedangkan pada kubus *Vigènere* ada tiga jenis layer (hasil pemotongan terhadap penampang x-y, penampang x-z, dan penampang y-z).

Dengan melakukan berulang-ulang transformasi tersebut (layer mana yang dipertukarkan dan jenis layer mana yang dipakai akan di-generate secara random dari suatu seed), akan diperoleh kubus *Vigènere* yang tidak terlihat polanya (oleh manusia) tetapi tetap memenuhi sifat kubus *Vigènere* yang baik.

Implementasi dari proses pembuatan kubus *Vigènere* ini dapat dilihat di lampiran (*Vigènere_cube_generator.cpp*), yang nantinya akan digunakan oleh proses utama (*Vigènere_cube.cpp*).

3. HASIL DAN PEMBAHASAN

Yang telah dicoba dan dapat dibahas terbagi dalam dua bagian besar. Bagian pertama membahas hasil proses (enkripsi dan dekripsi) beserta analisis terhadap hasil tersebut, bagian kedua membahas kekuatan dari *cipher* usulan.

3.1. Analisis proses *cipher* usulan

Sesuai dengan sifat *cipher* klasik, *cipher* usulan memiliki proses yang cukup sederhana. Dalam artian proses dekripsi dan enkripsi masih dapat dilakukan secara manual, tanpa bantuan komputer. Karena, seperti yang disebutkan di atas, proses enkripsi dan dekripsinya sebenarnya hanya berbasiskan *look-up table*. Hal tersebut dapat dilakukan secara manual jika "tabel"-nya diberikan.

Lebih dari itu, dalam implementasinya karakter yang ditangani (di enkripsi dan didekripsi) hanyalah 26 karakter huruf besar ('A' sampai 'Z'), karena itu, tabelnya "hanya" berukuran 26^3 *cell* (yang jika dicetak kurang dari 30 halaman). Hasil kubus *Vigènere* juga dapat dilihat di *Vigènere_cube.txt*.

Selain itu, proses enkripsi maupun dekripsi memakan

waktu yang sangat singkat. Terutama dengan adanya kubus *Vigènere* tambahan untuk menghemat waktu dekripsi.

Hasil dari proses enkripsi dan dekripsi dapat dilihat di lampiran (*cipher.txt* dan *plain2.txt*).

3.2. Analisis kekuatan *cipher* usulan

Metode seperti Kasiski, analisis frekuensi telah dicoba untuk mengkripianalisis *cipher* text. Hasilnya, tidak ada informasi yang dapat diperoleh. Baik informasi tentang *plaintext*, kunci, ataupun sekedar panjang kunci. Dengan kata lain, *ciphertext* yang dihasilkan *cipher* usulan lebih kuat jika dibandingkan *ciphertext* yang dihasilkan varian *Vigènere* lainnya (kecuali One Time Pad *Vigènere*).

Vigènere dasar memiliki kelemahan yang berasal dari panjang kunci yang dapat dicari. Seperti yang telah dijelaskan pada abstraksi. *Cipher* usulan memperkecil kelemahan ini dengan menambahkan suatu dimensi tambahan yaitu dimensi ketiga (*plaintext**). Seperti yang dijelaskan pada bagian *cipher* usulan, pengulangan pada *ciphertext* (yang benar merupakan pengulangan di *plaintext* dan kunci) mempunyai periode minimal = $n*(n+1)$. Dimana n = (panjang kunci) - 1. Sementara itu *Vigènere Cipher* mempunyai periode minimal $(n+1)$. Hal ini berarti *cipher* usulan ini n kali lebih sulit dalam menemukan panjang kunci, jika dibandingkan *Vigènere Cipher*.

Seandainya panjang kunci dapat diketahui pun, kripianalisis tidak dapat langsung menerapkan analisis frekuensi terhadap huruf tunggal biasa (seperti kemunculan *cipher* paling banyak, dalam kelipatan panjang kunci, berkorespondensi dengan *plaintext* 'e' dalam bahasa Inggris). Kripianalisis harus membuat tabel frekuensi baru yang berisi frekuensi kemunculan sepasang huruf (yang saling berjarak n) dari suatu bahasa, barulah mengkripianalisis.

Dengan kunci yang beragam panjangnya, kripianalisis memerlukan usaha tambahan untuk membuat tabel frekuensi baru. Itupun seandainya kripianalisis berhasil menebak panjang kunci, mengingat metode Kasiski tidak dapat digunakan.

Untuk kunci yang panjang (panjang kunci > panjang rata-rata kata dalam suatu bahasa) terdapat banyak penyimpangan. Huruf x_1 , yaitu n huruf sebelum suatu huruf x_2 (huruf pasangannya), jelas memiliki hubungan yang sangat kecil mengingat kemungkinan besar x_1 berada pada kata yang berbeda (tepat sebelum, atau bahkan jauh sebelum) dibanding kata tempat huruf x_1 berada.

Pada Auto-key *Vigènere Cipher*, sebenarnya yang perlu ditebak oleh kripianalisis tidak perlu menebak kunci sama sekali (terutama pada kasus dimana kunci cukup pendek). Karena untuk *ciphertext* dengan

posisi $>(n+1)$, kunci sama sekali tidak memiliki andil dalam mengenkrip ataupun mendekrip. Dalam *cipher* usulan ini, kunci akan memiliki andil terhadap setiap bagian *ciphertext* (karena adanya dimensi kedua (kunci) yang diulang-ulang).

Ciphertext hasil percobaan menunjukkan *plaintext* "TH" (pasangan huruf yang sering muncul dalam bahasa Inggris) yang muncul 22 kali pada *plaintext*, menghasilkan pasangan *ciphertext* (pada posisi yang sesuai) yang berbeda satu sama lain (QF, BZ, AO, AT, ZH, EP, PH, QB, LE, WX, XO, UE, AB, ZA, AW, QP, IE, XA, VA, PL, HG, dan QI). Hasil ini dapat dilihat di lampiran (*cipher.txt*).

4. KESIMPULAN

Dengan menggunakan *cipher* usulan, yang menggabungkan konsep *Vigènere* dasar dan Auto-key *Vigènere Cipher*, kita dapat memperkecil kelemahan kedua konsep tersebut.

Lebih dari itu, *cipher* usulan tetap mempertahankan kesederhanaan prosesnya (enkripsi dan dekripsi) sehingga tetap dapat dilakukan secara manual.

DAFTAR REFERENSI

- [1] Munir, Rinaldi, *Diktat Kuliah IF5054 Kriptografi*, Institut Teknologi Bandung, 2006.

Lampiran

plain.txt

```
HUNDREDS OF BANDUNG RESIDENTS FLOCKED TO THE BOSSCHA OBSERVATORY IN LEMBANG NORTH BANDUNG TO CATCH A GLIMPSE OF THE TOTAL LUNAR ECLIPSE ON TUESDAY OBSERVATION ACTIVITIES WERE FOCUSED AT THE VANALBADA CENTER AND AIRED LIVE BY TVRI STATE RUN TELEVISION STATION THE EIGHT BOSSCHA ASTRONOMERS WHO CONDUCTED THE OBSERVATIONS AID THEY WERE SATISFIED ALTHOUGH THE TELESCOPES WERE ONLY EFFECTIVE TEN MINUTES INTO THE PEAK OF THE TOTAL LUNAR ECLIPSE WITH TRAFFIC BACKED UP ONE KILO METER ALONG THE ROAD LEADING TO THE OBSERVATORY ASTRONOMERS WERE FORCED TO SHARE THE VIXEN TELESCOPE WITH VISITORS OBSERVATIONS WERE CONDUCTED ATOP THE VANALBADA CENTER BY USING TWO CELESTRON TELESCOPES AND ONE WILLIAM OPTICS MEASURING TWENTY CM AND SEVEN CM IN DIAMETER RESPECTIVELY IT WAS THE SECOND TIME ASTRONOMERS HAD INVITED THE PUBLIC TO AN EVENT AND ALLOWED IT TO BROADCAST LIVE ON TV AFTER THE PREVIOUS MARS FULL MOON PHENOMENON ON AUGUST A GEGER KALONG RESIDENT RINDA CAME WITH SIX OF HER ROOMMATES BY PUBLIC BUS TO WITNESS THE SPECTACLE
```

cipher.txt (dengan kunci HADISALOKO)

```
PTEZBBRRKTBVSICQFWZDLOEUWFZRNOPWQXVQFBNHZUZEEUTDCZIMMVFYQDFFJJRZCICBZWDZOPJ OHBFOHYTKDJKKEGAWOAFKXCTKJQPIPBEMVIEFOVLXIMYKJZEVBXEUADFPZQWOXSXELFLDAFWRTN SLLMZWATVXMGDGAUVYQERZLQAUWDSQEFXLAZIEFQVZGVXZJBEBVOUHRTLGGZCRQVXXOMJZHFWIBKV SKZQDVNVUWNSTPTIFZLJKJFBAOKMREPPVQZVGBGQMJEQKMTPHUNLJMQQEKWSFLSBMCQBXPPLLEDX BKBLNREWXOQRPOQDSYATWQKYHAFSIVYRWDDDBQXGSWXUJFGWLYXOWXKWLHVHWWXYMDNQTCJLFUEFQA KXIEYYOPYDUVKPGCTRRTTLNUDAPDABWEVCAPTWXQVNLZZAXRAMNAQEKVWXQZFWVGDWATWKSFL IHFIFPQBWCRAWJFHLNKUHDXTYFFOFQPEPYRWBYVLLNEUCJBWDKWNFRZSYOGXBNMMVNYIEJCUQP MKERZZYDABCTCIJLEZFDPKZNFHSEQJASFWHDWIUVKLGQGFLLYGUKNRUBEBERTOCZPDVUPSTIXSZS GXNOLYJORAZWOFNVYXPLIRYIMQFXNSPCUYLVAHTUIFHZQVQEPYEEMNLJNSXWEAUFUFWEYVAOSM JSWCIATWMAQCVPVQCGLQAUDNYHVUHSBXHZVCZFQWNZOGDWIXZTPLDXSZIQPWAOUTUHLVZDKOVWLRV UJXFGWLQCSHNDPKLANROXKUVQMZCGIHBLDXQB JHCTMFZMHGPQUZZXMKNHXCAEPKYVCGTDTMXQGSBG JHRSZFEMQIOMRPBWMQTQW
```

plain2.txt (dengan kunci HADISALOKO)

```
HUNDREDSOFBANDUNGRESIDENTSFLOCKEDTOTHEBOSSCHAOBSERVATORYINLEMBANGNORTHBANDUN GTOCATCHAGLIMPSEOFTHETOTALLUNARECLIPSEONTUESDAYOBSERVATIONACTIVITIESWEREFOCU SSEDATTHEVANALBADACENTERANDAIREDLIVEBYTVRISTATERUNTELEVISIONSTATIONTHEEIGHTB OSSCHAASTRONOMERSWHOCONDUCTEDTHEOBSERVATIONS SAIDTHEYWERESATISFIEDALTHOUGHTHE T ELESOPESWEREONLYEFFECTIVETENMINUTESINTOTHEPEAKOFTHETOTALLUNARECLIPSEWITHTRA FFICBACKEDUPONEKILOMETERALONGTHEROADLEADINGTOTHEOBSERVATORYASTRONOMERSWEREFO RCEDTOSHARETHEVIXENTELESCOPEWITHVISITORSOBSERVATIONSWERECONDUCTEDATOPTHEVANA LBADACENTERBYUSINGTWOCELESTRONTELESCOPESANDONEWILLIAMOPTICSMEASURINGTWENTYCM ANDSEVENCMINDIAMETERRESPECTIVELYITWASTHESECONDTIMEASTRONOMERSHADINVITEDTHEPU BLIC TOANEVENTANDALLOWEDITTOBROADCASTLIVEONTVAFTERTHEPREVIOUSMARSFULLMOONPHEN OMENONONAUGUSTAGEGERKALONGRESIDENTRINDACAMEWITHSIXOFHERROOMMATESBYPUBLICBUST OWITNESSTHESPECTACLE
```

vigenere_cube.cpp

```
#include<stdio.h>
#include<string.h>
#include<queue>

#include "vigenere_cube.txt"

using namespace std;
```

```

int main(int argc, char **argv)
{
    char *mode;
    char *kunci;
    int panjang_kunci;
    char *nama_berkas_masukan, *nama_berkas_keluaran;
    FILE *berkas_masukan, *berkas_keluaran;
    char karakter_masukan, karakter_kunci, karakter_keluaran;
    int i;
    queue<int> antrian_param3;

    if(argc<3)
    {
        printf("ERR1: jumlah parameter<3\n");
        return 1;
    }
    mode=argv[1];
    if((strcmp(mode,"e"))&&(strcmp(mode,"d")))
    {
        printf("ERR2: parameter mode salah\n");
        return 2;
    }
    kunci=argv[2];
    panjang_kunci=strlen(kunci);
    if(panjang_kunci<2)
    {
        printf("ERR3: panjang kunci<2\n");
        return 3;
    }
    nama_berkas_masukan=argv[3];
    berkas_masukan=fopen(nama_berkas_masukan,"rt");
    if(!berkas_masukan)
    {
        printf("ERR4: file masukan \"%s\" tidak dapat dibuka\n",nama_berkas_masukan);
        return 4;
    }
    nama_berkas_keluaran=argv[4];
    berkas_keluaran=fopen(nama_berkas_keluaran,"wt");
    if(!berkas_keluaran)
    {
        printf("ERR5: file keluaran \"%s\" tidak dapat dibentuk\n",nama_berkas_keluaran);
        return 5;
    }

    for(i=1;i<panjang_kunci;i++)
    {
        antrian_param3.push(kunci[i]);
    }

    i=0;
    while(fscanf(berkas_masukan,"%c",&karakter_masukan)==1)
    {
        if((karakter_masukan>='A')&&(karakter_masukan<='Z'))
        {
            if(!strcmp(mode,"e"))
            {
                karakter_keluaran=vigenere_cube_e[karakter_masukan-'A'][kunci[i%panjang_kunci]-
                'A'][antrian_param3.front()-'A']+'A';
                antrian_param3.push(karakter_masukan);
            }
        }
    }
}

```

```

    }
    else if(!strcmp(mode,"d"))
    {
        karakter_keluaran=vigenere_cube_d[karakter_masukan-'A'][(kunci[i%panjang_kunci]-
'A')][antrian_param3.front()-'A']+'A';
        antrian_param3.push(karakter_keluaran);
    }
    fprintf(berkas_keluaran,"%c",karakter_keluaran);
    antrian_param3.pop();
    i++;
}
}

fclose(berkas_masukan);
fclose(berkas_keluaran);
return 0;
}

```

vigenere_cube_generator.cpp

```

#include<stdio.h>
#include<stdlib.h>
#define banyak_jenis_karakter 26
#define seed 13504157
#define banyak_pengacakan 26*26*26

int main(int argc,char **argv)
{
    char *nama_berkas_keluaran;
    FILE *berkas_keluaran;
    int vigenere_cube[banyak_jenis_karakter][banyak_jenis_karakter][banyak_jenis_karakter];
    int vigenere_cube2[banyak_jenis_karakter][banyak_jenis_karakter][banyak_jenis_karakter];
    int temp_vigenere_cell;
    int i,j,k;
    int m,n;
    int o,p;

    if(argc<2)
    {
        printf("ERR1: jumlah parameter<2\n");
        return 1;
    }
    nama_berkas_keluaran=argv[1];
    berkas_keluaran=fopen(nama_berkas_keluaran,"wt");
    if(!berkas_keluaran)
    {
        printf("ERR2: file keluaran \"%s\" tidak dapat dibentuk\n",nama_berkas_keluaran);
        return 2;
    }
    for(i=0;i<banyak_jenis_karakter;i++)
    {
        for(j=0;j<banyak_jenis_karakter;j++)
        {
            for(k=0;k<banyak_jenis_karakter;k++)
            {
                vigenere_cube[i][j][k]=(i+j+k)%banyak_jenis_karakter;
            }
        }
    }
}

```



```

srand(seed);
for(p=0;p<banyak_pengacakan;p++)
{
m=rand()%banyak_jenis_karakter;
n=rand()%banyak_jenis_karakter;
o=rand()%3;

if(o==0)
{
for(i=0;i<banyak_jenis_karakter;i++)
{
for(j=0;j<banyak_jenis_karakter;j++)
{
temp_vigenere_cell=vigenere_cube[m][i][j];
vigenere_cube[m][i][j]=vigenere_cube[n][i][j];
vigenere_cube[n][i][j]=temp_vigenere_cell;
}
}
}
else if(o==1)
{
for(i=0;i<banyak_jenis_karakter;i++)
{
for(j=0;j<banyak_jenis_karakter;j++)
{
temp_vigenere_cell=vigenere_cube[i][m][j];
vigenere_cube[i][m][j]=vigenere_cube[i][n][j];
vigenere_cube[i][n][j]=temp_vigenere_cell;
}
}
}
else if(o==2)
{
for(i=0;i<banyak_jenis_karakter;i++)
{
for(j=0;j<banyak_jenis_karakter;j++)
{
temp_vigenere_cell=vigenere_cube[i][j][m];
vigenere_cube[i][j][m]=vigenere_cube[i][j][n];
vigenere_cube[i][j][n]=temp_vigenere_cell;
}
}
}
}

fprintf(berkas_keluaran,"int
vigenere_cube_e[%i][%i][%i]={\n",banyak_jenis_karakter,banyak_jenis_karakter,banyak_jenis_karakter);
for(i=0;i<banyak_jenis_karakter;i++)
{
fprintf(berkas_keluaran,"t{\n");
for(j=0;j<banyak_jenis_karakter;j++)
{
fprintf(berkas_keluaran,"\t{");
for(k=0;k<banyak_jenis_karakter;k++)
{
fprintf(berkas_keluaran,"%2i%c",vigenere_cube[i][j][k],((k==(banyak_jenis_karakter-1))?' ':''));
vigenere_cube2[vigenere_cube[i][j][k]][j][k]=i;
}
}
fprintf(berkas_keluaran,"}%s",((j==(banyak_jenis_karakter-1))?"\n":".\n"));
}
}
}

```

```

    }
    fprintf(berkas_keluaran, "\t%s", ((i==(banyak_jenis_karakter-1))?"\n":"\n"));
}
fprintf(berkas_keluaran, "};\n");

fprintf(berkas_keluaran, "int
vigenere_cube_d[%i][%i][%i]={\n", banyak_jenis_karakter, banyak_jenis_karakter, banyak_jenis_karakter);
for(i=0; i<banyak_jenis_karakter; i++)
{
    fprintf(berkas_keluaran, "\t{\n");
    for(j=0; j<banyak_jenis_karakter; j++)
    {
        fprintf(berkas_keluaran, "\t\t{");
        for(k=0; k<banyak_jenis_karakter; k++)
        {
            fprintf(berkas_keluaran, "%2i%c", vigenere_cube2[i][j][k], ((k==(banyak_jenis_karakter-1))?' ':''));
        }
        fprintf(berkas_keluaran, "}%s", ((j==(banyak_jenis_karakter-1))?"\n":"\n"));
    }
    fprintf(berkas_keluaran, "\t}%s", ((i==(banyak_jenis_karakter-1))?"\n":"\n"));
}
fprintf(berkas_keluaran, "};\n");

fclose(berkas_keluaran);
return 0;
}

```

vigenere_cube.txt

int vigenere_cube_e[26][26][26]={

```

{
    { 3,17,12,14, 8, 4,25,24, 0,23, 5,13,18,21, 7,20,16,19,10,15,22,11, 9, 2, 6, 1 },
    { 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 },
    { 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 },
    { 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 },
    { 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 },
    { 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 },
    { 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 },
    { 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 },
    { 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 },
    { 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 },
    { 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 },
    { 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 },
    { 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 },
    { 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 },
    { 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 },
    { 6,20,15,17,11, 7, 2, 1, 3, 0, 8,16,21,24,10,23,19,22,13,18,25,14,12, 5, 9, 4 },
    { 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 },
    { 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 },
    { 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 },
    { 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 },
    { 0,14, 9,11, 5, 1,22,21,23,20, 2,10,15,18, 4,17,13,16, 7,12,19, 8, 6,25, 3,24 },
    { 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 },
    { 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 },
    { 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 },
    { 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 },
    { 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
},
{
    { 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 },
    { 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 },
    { 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 },
    { 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 },
    { 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 },
    { 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 },
    { 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 },
    { 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 },
    { 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 },
    { 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 },
    { 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 },
    { 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 },
    { 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 },
    { 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
},

```

int vigenere_cube_d[26][26][26]={

```

{
    { 8,17, 4,19, 9,14, 7,13, 0,11,15,21, 2,20, 3,18,22,16,10,23, 6, 5,12,25, 1,24 },
    { 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 },
    { 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 },
    { 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 },
    { 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 },
    { 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 },
    { 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 },
    { 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 },
    { 7,21, 9,10,14, 0,20,18, 6,16,24,12,19,17, 8,22, 4,23, 1, 5, 2, 3,15,13,25,11 },
    { 9, 6,17,16,21,12,14, 8,15,25,10, 2,11, 0, 4, 7,20,13,23,18,24,22,19, 3, 5, 1 },
    { 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 },
    { 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 },
    { 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19, 8,24,18,13,16 },
    { 5, 7,18, 6,22, 4, 3, 1, 9,15,21,20, 0, 8,23,25,13,24, 2,11,14,16,17,10,19,12 },
    { 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 },
    { 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 },
    { 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 },
    { 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 },
    { 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 },
    { 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 },
    { 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 },
    { 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 },
    { 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 },
    { 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 },
    { 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 },
    { 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
},
{
    { 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 },
    { 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 },
    { 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 },
    { 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 },
    { 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 },
    { 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 },
    { 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 },
    { 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 },
    { 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 },
    { 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 },
    { 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 },
    { 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 },
    { 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 },
    { 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
},

```

{3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1}, {0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24}, {17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15}, {16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14}, {12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10}, {7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5}, {20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18}, {24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22}, {1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25}, {13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11}, {6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4}, {21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19}, }, { {11,25,20,22,16,12,7,6,8,5,13,21,0,3,15,2,24,1,18,23,4,19,17,10,14,9}, {24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22}, {25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23}, {13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11}, {6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4}, {10,24,19,21,15,11,6,5,7,4,12,20,25,2,14,1,23,0,17,22,3,18,16,9,13,8}, {23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21}, {22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20}, {7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5}, {16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14}, {18,6,1,3,23,19,14,13,15,12,20,2,7,10,22,9,5,8,25,4,11,0,24,17,21,16}, {2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0}, {3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1}, {19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17}, {17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15}, {14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12}, {5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3}, {4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2}, {0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24}, {21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19}, {8,22,17,19,13,9,4,3,5,2,10,18,23,0,12,25,21,24,15,20,1,16,14,7,11,6}, {12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10}, {15,3,24,0,20,16,11,10,12,9,17,25,4,7,19,6,2,5,22,1,8,23,21,14,18,13}, {1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25}, {20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18}, {9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7}, }, { {22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20}, {9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7}, {10,24,19,21,15,11,6,5,7,4,12,20,25,2,14,1,23,0,17,22,3,18,16,9,13,8}, {24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22}, {17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15}, {19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17}, {19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17}, {8,22,17,19,13,9,4,3,5,2,10,18,23,0,12,25,21,24,15,20,1,16,14,7,11,6}, {7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5}, {18,6,1,3,23,19,14,13,15,12,20,2,7,10,22,9,5,8,25,4,11,0,24,17,21,16}, {1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25}, {3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1}, {13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11}, {14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12}, {4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2}, {2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0}, {25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23}, {16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14}, {15,3,24,0,20,16,11,10,12,9,17,25,4,7,19,6,2,5,22,1,8,23,21,14,18,13}, {11,25,20,22,16,12,7,6,8,5,13,21,0,3,15,2,24,1,18,23,4,19,17,10,14,9}, {6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4}, {19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17}, {23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21}, {0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24}, {12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10}, {5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3}, {20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18}, }, { {17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15}, {4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2}, {5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3}, {19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17}, {12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10}, {16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14}, {3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1}, {2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0}, {13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11}, {22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20}, {24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22}, {8,22,17,19,13,9,4,3,5,2,10,18,23,0,12,25,21,24,15,20,1,16,14,7,11,6}, {9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7}, {25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23}, {23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21}, {20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18}, }, { {9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1}, {15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8}, {6,10,15,3,24,11,2,17,16,22,13,1,5,19,0,21,12,4,8,9,23,14,25,20,7,18}, {20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16}, {17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23}, {4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10}, {7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11}, {8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24}, {1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14}, {2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22}, {5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12}, {0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13}, }, { {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {19,25,11,7,16,23,10,12,5,9,22,13,8,1,2,15,24,14,20,0,3,6,18,21,17,4}, {23,8,13,0,18,22,5,10,4,12,17,7,14,3,16,1,25,15,6,24,9,11,20,19,2,21}, {8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24}, {6,10,15,3,24,11,2,17,16,22,13,1,5,19,0,21,12,4,8,9,23,14,25,20,7,18}, {0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13}, {21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5}, {4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10}, {11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20}, {1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14}, {9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1}, {2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22}, {16,3,25,14,13,18,23,19,22,21,20,8,9,5,11,10,1,12,0,15,4,24,7,2,6,17}, {12,11,2,18,19,10,15,14,1,8,5,16,13,24,21,0,6,7,22,20,15,17,23,9,4,3}, {3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15}, {14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25}, {20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16}, {18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2}, {22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19}, {5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12}, {13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6}, {25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,10,9,24,15,0}, {15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8}, {17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23}, {10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9}, {7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11}, }, { {0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13}, {21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5}, {19,25,11,7,16,23,10,12,5,9,22,13,8,1,2,15,24,14,20,0,3,6,18,21,17,4}, {25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,10,9,24,15,0}, {20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16}, {7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11}, {4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10}, {5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12}, {6,10,15,3,24,11,2,17,16,22,13,1,5,19,0,21,12,4,8,9,23,14,25,20,7,18}, {15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8}, {3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15}, {17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23}, {2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22}, {9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1}, {1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14}, {8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24}, {18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2}, {16,3,25,14,13,18,23,19,22,21,20,8,9,5,11,10,1,12,0,15,4,24,7,2,6,17}, {23,8,13,0,18,22,5,10,4,12,17,7,14,3,16,1,25,15,6,24,9,11,20,19,2,21}, {10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9}, {11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20}, {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25}, {22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19}, {12,11,2,18,19,10,15,14,1,8,5,16,13,24,21,0,6,7,22,20,25,17,23,9,4,3}, {13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6}, }, { {7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11}, {4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10}, {21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5}, {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2}, {13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6}, {5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12}, {10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9}, {11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20}, {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25}, {1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14}, {22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19}, {17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23}, {3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15}, {15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8}, {25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,10,9,24,15,0}, }, { {2,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11}, {4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10}, {21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5}, {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2}, {13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6}, {5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12}, {10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9}, {11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20}, {24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7}, {14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25}, {1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14}, {22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19}, {17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23}, {3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15}, {15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8}, {25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,10,9,24,15,0

{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, }
{1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, }
{5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, }
{8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18, }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, }
{2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, }
,
{0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, }
{2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, }
{21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23, }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10, }
{11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, }
{5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, }
{7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5, }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15, }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16, }
{8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, }
{6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4, }
{3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1, }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18, }
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8, }
{23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21, }
{1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, }
{4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, }
{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14, }
{9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7, }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, }
,
{21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, }
{8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, }
{23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7, }
{9, 23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21, }
{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14, }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18, }
{7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5, }
{6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4, }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15, }
{0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, }
{2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10, }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, }
{1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8, }
{5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16, }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23, }
{11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, }
{4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, }
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, }
,
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, }
{6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4, }
{7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5, }
{21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16, }
{5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, }
{4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, }
{0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8, }
{11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, }
{1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23, }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10, }
{8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, }
{3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1, }

{5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, }
{1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14, }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, }
{11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20, }
{0, 19, 12, 5, 15, 24, 6, 20, 11, 18, 25, 10, 23, 2, 14, 17, 21, 22, 3, 4, 16, 9, 1, 7, 8, 13, }
{4, 0, 20, 11, 17, 21, 9, 3, 12, 1, 19, 6, 24, 14, 22, 8, 7, 25, 16, 13, 15, 18, 2, 5, 23, 10, }
{15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8, }
{18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2, }
,
{20, 12, 14, 1, 0, 6, 17, 22, 2, 23, 11, 15, 10, 21, 7, 4, 9, 5, 25, 3, 19, 8, 24, 18, 13, 16, }
{9, 6, 17, 16, 21, 12, 14, 8, 15, 25, 10, 2, 11, 0, 4, 7, 20, 13, 23, 18, 24, 22, 19, 3, 5, 1, }
{12, 11, 2, 18, 19, 10, 15, 14, 1, 8, 5, 16, 13, 24, 21, 0, 6, 7, 22, 20, 25, 17, 23, 9, 4, 3, }
{11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20, }
{22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19, }
{18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2, }
{3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15, }
{1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14, }
{17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23, }
{0, 19, 12, 5, 15, 24, 6, 20, 11, 18, 25, 10, 23, 2, 14, 17, 21, 22, 3, 4, 16, 9, 1, 7, 8, 13, }
{25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0, }
{4, 0, 20, 11, 17, 21, 9, 3, 12, 1, 19, 6, 24, 14, 22, 8, 7, 25, 16, 13, 15, 18, 2, 5, 23, 10, }
{21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5, }
{8, 17, 4, 19, 9, 14, 7, 13, 0, 11, 15, 21, 2, 20, 3, 18, 22, 16, 10, 23, 6, 5, 12, 25, 1, 24, }
{24, 23, 10, 4, 1, 25, 11, 6, 13, 20, 8, 5, 22, 16, 15, 2, 19, 17, 9, 21, 18, 12, 3, 0, 14, 7, }
{13, 4, 3, 12, 8, 7, 18, 16, 20, 2, 0, 9, 21, 22, 25, 23, 5, 19, 15, 10, 17, 1, 14, 11, 24, 6, }
{23, 8, 13, 0, 18, 22, 5, 10, 4, 12, 17, 7, 14, 3, 16, 1, 25, 15, 6, 24, 9, 11, 20, 19, 2, 21, }
{19, 25, 11, 7, 16, 23, 10, 12, 5, 9, 22, 13, 8, 1, 2, 15, 24, 14, 20, 0, 3, 6, 18, 21, 17, 4, }
{10, 13, 16, 20, 23, 5, 1, 15, 3, 14, 4, 18, 7, 25, 19, 24, 11, 0, 17, 6, 8, 2, 22, 12, 21, 9, }
{15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8, }
{2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22, }
{6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, }
{7, 21, 9, 10, 14, 0, 20, 18, 6, 16, 24, 12, 19, 17, 8, 22, 4, 23, 1, 5, 2, 3, 15, 13, 25, 11, }
{5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, }
{14, 2, 21, 23, 12, 15, 0, 7, 24, 13, 1, 19, 16, 6, 9, 20, 17, 18, 5, 22, 11, 4, 10, 8, 3, 25, }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, }
,
{18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2, }
{3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15, }
{9, 6, 17, 16, 21, 12, 14, 8, 15, 25, 10, 2, 11, 0, 4, 7, 20, 13, 23, 18, 24, 22, 19, 3, 5, 1, }
{6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, }
{23, 8, 13, 0, 18, 22, 5, 10, 4, 12, 17, 7, 14, 3, 16, 1, 25, 15, 6, 24, 9, 11, 20, 19, 2, 21, }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, }
{1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14, }
{15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8, }
{22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19, }
{7, 21, 9, 10, 14, 0, 20, 18, 6, 16, 24, 12, 19, 17, 8, 22, 4, 23, 1, 5, 2, 3, 15, 13, 25, 11, }
{5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, }
{14, 2, 21, 23, 12, 15, 0, 7, 24, 13, 1, 19, 16, 6, 9, 20, 17, 18, 5, 22, 11, 4, 10, 8, 3, 25, }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, }
,
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5

{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14 }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18 }
{23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21 }
{9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7 }
{2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0 }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15 }
}
{
{ 6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4 }
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17 }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18 }
{ 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6 }
{ 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25 }
{ 5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3 }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16 }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15 }
{ 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0 }
{11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9 }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11 }
{23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21 }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22 }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12 }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10 }
{ 9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7 }
{ 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24 }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23 }
{21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19 }
{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14 }
{ 3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1 }
{ 7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5 }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8 }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20 }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13 }
{ 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2 }
}
{
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18 }
{ 7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5 }
{ 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6 }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20 }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13 }
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17 }
{ 6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4 }
{ 5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3 }
{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14 }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23 }
{ 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25 }
{11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9 }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10 }
{ 9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7 }
{ 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24 }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12 }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10 }
{ 9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7 }
{ 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24 }
{23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21 }
{14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12 }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11 }
{ 9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7 }
{ 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2 }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15 }
{21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19 }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22 }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8 }
{ 3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1 }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16 }
}
{
{ 5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3 }
{18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16 }
{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17 }
{ 7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5 }
{ 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24 }
{ 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2 }
{17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15 }
{16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14 }
{ 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25 }
{10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8 }
{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10 }
{22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20 }
{23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21 }
{13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11 }
{ 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6 }
{25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23 }
{24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22 }
{20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18 }
{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13 }
{ 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0 }
{ 6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4 }
}
}

{22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19 }
{18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2 }
{11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20 }
{12, 11, 2, 18, 19, 10, 15, 14, 1, 8, 5, 16, 13, 24, 21, 0, 6, 7, 22, 20, 25, 17, 23, 9, 4, 3 }
{25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0 }
{17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23 }
}
{
{ 2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22 }
{15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8 }
{ 1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14 }
{18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2 }
{21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5 }
{15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23 }
{14, 2, 21, 23, 12, 15, 0, 7, 24, 13, 1, 19, 16, 6, 9, 20, 17, 18, 5, 22, 11, 4, 10, 8, 3, 25 }
{ 8, 17, 4, 19, 9, 14, 7, 13, 0, 11, 15, 21, 2, 20, 3, 18, 22, 16, 10, 23, 6, 5, 12, 25, 1, 24 }
{19, 25, 11, 7, 16, 23, 10, 12, 5, 9, 22, 13, 8, 1, 2, 15, 24, 14, 20, 0, 3, 6, 18, 21, 17, 4 }
{11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20 }
{ 7, 21, 9, 10, 14, 0, 20, 18, 6, 16, 24, 12, 19, 17, 8, 22, 4, 23, 1, 5, 2, 3, 15, 13, 25, 11 }
{12, 11, 2, 18, 19, 10, 15, 14, 1, 8, 5, 16, 13, 24, 21, 0, 6, 7, 22, 20, 25, 17, 23, 9, 4, 3 }
{10, 13, 16, 20, 23, 5, 1, 15, 3, 14, 4, 18, 7, 25, 19, 24, 11, 0, 17, 6, 8, 2, 22, 12, 21, 9 }
{ 0, 19, 12, 5, 15, 24, 6, 20, 11, 18, 25, 10, 23, 2, 14, 17, 21, 22, 3, 4, 16, 9, 1, 7, 8, 13 }
{13, 4, 3, 12, 8, 7, 18, 16, 20, 2, 0, 9, 21, 22, 25, 23, 5, 19, 15, 10, 17, 1, 14, 11, 24, 6 }
{20, 12, 14, 1, 0, 6, 17, 22, 2, 23, 11, 15, 10, 21, 7, 4, 9, 5, 25, 3, 19, 8, 24, 18, 13, 16 }
{ 4, 0, 20, 11, 17, 21, 9, 3, 12, 1, 19, 6, 24, 14, 22, 8, 7, 25, 16, 13, 15, 18, 2, 5, 23, 10 }
{ 5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12 }
{ 3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15 }
{25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0 }
{23, 8, 13, 0, 18, 22, 5, 10, 4, 12, 17, 7, 14, 3, 16, 1, 25, 15, 6, 24, 9, 11, 20, 19, 2, 21 }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17 }
{ 6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18 }
{ 9, 6, 17, 16, 21, 12, 14, 8, 15, 25, 10, 2, 11, 0, 4, 7, 20, 13, 23, 18, 24, 22, 19, 3, 5, 1 }
{24, 23, 10, 4, 1, 25, 11, 6, 13, 20, 8, 5, 22, 16, 15, 2, 19, 17, 9, 21, 18, 12, 3, 0, 14, 7 }
{22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19 }
}
{
{17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23 }
{14, 2, 21, 23, 12, 15, 0, 7, 24, 13, 1, 19, 16, 6, 9, 20, 17, 18, 5, 22, 11, 4, 10, 8, 3, 25 }
{15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8 }
{16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17 }
{ 4, 0, 20, 11, 17, 21, 9, 3, 12, 1, 19, 6, 24, 14, 22, 8, 7, 25, 16, 13, 15, 18, 2, 5, 23, 10 }
{22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19 }
{ 8, 17, 4, 19, 9, 14, 7, 13, 0, 11, 15, 21, 2, 20, 3, 18, 22, 16, 10, 23, 6, 5, 12, 25, 1, 24 }
{25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0 }
{21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5 }
{ 6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18 }
{ 9, 6, 17, 16, 21, 12, 14, 8, 15, 25, 10, 2, 11, 0, 4, 7, 20, 13, 23, 18, 24, 22, 19, 3, 5, 1 }
{24, 23, 10, 4, 1, 25,

<p>{ 9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7, } { 21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19, } { 14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12, } { 3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1, } },</p>	<p>{ 18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2, } { 1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14, } { 7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11, } { 19,25,11,7,16,23,10,12,5,9,22,13,8,1,2,15,24,14,20,0,3,6,18,21,17,4, } },</p>
<p>{ 25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23, } { 12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10, } { 13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11, } { 1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25, } { 20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18, } { 24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22, } { 11,25,20,22,16,12,7,6,8,5,13,21,0,3,15,2,24,1,18,23,4,19,17,10,14,9, } { 10,24,19,21,15,11,6,5,7,4,12,20,25,2,14,1,23,0,17,22,3,18,16,9,13,8, } { 21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19, } { 4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2, } { 6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4, } { 16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14, } { 17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15, } { 7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5, } { 5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3, } { 2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0, } { 19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17, } { 18,6,1,3,23,19,14,13,15,12,20,2,7,10,22,9,5,8,25,4,11,0,24,17,21,16, } { 14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12, } { 9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7, } { 22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20, } { 0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24, } { 3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1, } { 15,3,24,0,20,16,11,10,12,9,17,25,4,7,19,6,2,5,22,1,8,23,21,14,18,13, } { 8,22,17,19,13,9,4,3,5,2,10,18,23,0,12,25,21,24,15,20,1,16,14,7,11,6, } { 23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21, } },</p>	<p>{ 23,8,13,0,18,22,5,10,4,12,17,7,14,3,16,1,25,15,6,24,9,11,20,19,2,21, } { 25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,20,10,9,24,15,0, } { 8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24, } { 17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23, } { 10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9, } { 19,25,11,7,16,23,10,12,5,9,22,13,8,1,2,15,24,14,20,0,3,6,18,21,17,4, } { 24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7, } { 0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13, } { 5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12, } { 18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2, } { 6,10,15,3,24,11,2,17,16,22,13,1,5,19,0,21,12,4,8,9,23,14,25,20,7,18, } { 1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14, } { 3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15, } { 11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20, } { 20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16, } { 2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22, } { 12,11,2,18,19,10,15,14,1,8,5,16,13,24,21,0,6,7,22,20,25,17,23,9,4,3, } { 9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1, } { 14,4,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25, } { 7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11, } { 4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10, } { 22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19, } { 16,3,25,14,13,18,23,19,22,21,20,8,9,5,11,10,1,12,0,15,4,24,7,2,6,17, } { 15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8, } { 13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6, } { 21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5, } },</p>
<p>{ 24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22, } { 11,25,20,22,16,12,7,6,8,5,13,21,0,3,15,2,24,1,18,23,4,19,17,10,14,9, } { 12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10, } { 0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24, } { 19,7,2,4,24,20,15,14,16,13,21,3,8,11,23,10,6,9,0,5,12,1,25,18,22,17, } { 23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21, } { 10,24,19,21,15,11,6,5,7,4,12,20,25,2,14,1,23,0,17,22,3,18,16,9,13,8, } { 9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7, } { 20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18, } { 3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1, } { 5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3, } { 15,3,24,0,20,16,11,10,12,9,17,25,4,7,19,6,2,5,22,1,8,23,21,14,18,13, } { 16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14, } { 6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4, } { 4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2, } { 1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25, } { 18,6,1,3,23,19,14,13,15,12,20,2,7,10,22,9,5,8,25,4,11,0,24,17,21,16, } { 17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15, } { 13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11, } { 8,22,17,19,13,9,4,3,5,2,10,18,23,0,12,25,21,24,15,20,1,16,14,7,11,6, } { 21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19, } { 25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23, } { 2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0, } { 14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12, } { 7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5, } { 22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20, } },</p>	<p>{ 19,25,11,7,16,23,10,12,5,9,22,13,8,1,2,15,24,14,20,0,3,6,18,21,17,4, } { 24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7, } { 25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,20,10,9,24,15,0, } { 22,14,7,24,20,17,4,5,21,10,2,0,15,9,18,3,8,1,11,25,12,13,6,23,16,19, } { 12,11,2,18,19,10,15,14,1,8,5,16,13,24,21,0,6,7,22,20,25,17,23,9,4,3, } { 21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5, } { 0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13, } { 7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11, } { 10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9, } { 16,3,25,14,13,18,23,19,22,21,20,8,9,5,11,10,1,12,0,15,4,24,7,2,6,17, } { 20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16, } { 15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8, } { 1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14, } { 18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2, } { 9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1, } { 6,10,15,3,24,11,2,17,16,22,13,1,5,19,0,21,12,4,8,9,23,14,25,20,7,18, } { 2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22, } { 7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11, } { 10,13,16,20,23,5,1,15,3,14,4,18,7,25,19,24,11,0,17,6,8,2,22,12,21,9, } { 20,12,14,1,0,6,17,22,2,23,11,15,10,21,7,4,9,5,25,3,19,8,24,18,13,16, } { 15,16,19,22,10,1,24,0,25,7,3,23,18,11,12,6,2,20,4,17,13,21,5,14,9,8, } { 1,18,23,17,5,3,25,24,8,0,9,22,20,13,10,11,16,6,21,2,7,19,4,15,12,14, } { 18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2, } { 9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1, } { 3,20,22,2,4,9,8,25,14,24,12,17,6,7,5,13,18,11,19,16,0,23,21,1,10,15, } { 8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24, } { 13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6, } { 5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12, } { 23,8,13,0,18,22,5,10,4,12,17,7,14,3,16,1,25,15,6,24,9,11,20,19,2,21, } { 2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22, } { 14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25, } { 11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20, } { 4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10, } },</p>
<p>{ 10,24,19,21,15,11,6,5,7,4,12,20,25,2,14,1,23,0,17,22,3,18,16,9,13,8, } { 23,11,6,8,2,24,19,18,20,17,25,7,12,15,1,14,10,13,4,9,16,5,3,22,0,21, } { 24,12,7,9,3,25,20,19,21,18,0,8,13,16,2,15,11,14,5,10,17,6,4,23,1,22, } { 12,0,21,23,17,13,8,7,9,6,14,22,1,4,16,3,25,2,19,24,5,20,18,11,15,10, } { 5,19,14,16,10,6,1,0,2,25,7,15,20,23,9,22,18,21,12,17,24,13,11,4,8,3, } { 9,23,18,20,14,10,5,4,6,3,11,19,24,1,13,0,22,25,16,21,2,17,15,8,12,7, } { 22,10,5,7,1,23,18,17,19,16,24,6,11,14,0,13,9,12,3,8,15,4,2,21,25,20, } { 21,9,4,6,0,22,17,16,18,15,23,5,10,13,25,12,8,11,2,7,14,3,1,20,24,19, } { 6,20,15,17,11,7,2,1,3,0,8,16,21,24,10,23,19,22,13,18,25,14,12,5,9,4, } { 15,3,24,0,20,16,11,10,12,9,17,25,4,7,19,6,2,5,22,1,8,23,21,14,18,13, } { 17,5,0,2,22,18,13,12,14,11,19,1,6,9,21,8,4,7,24,3,10,25,23,16,20,15, } { 1,15,10,12,6,2,23,22,24,21,3,11,16,19,5,18,14,17,8,13,20,9,7,0,4,25, } { 2,16,11,13,7,3,24,23,25,22,4,12,17,20,6,19,15,18,9,14,21,10,8,1,5,0, } { 18,6,1,3,23,19,14,13,15,12,20,2,7,10,22,9,5,8,25,4,11,0,24,17,21,16, } { 16,4,25,1,21,17,12,11,13,10,18,0,5,8,20,7,3,6,23,2,9,24,22,15,19,14, } { 13,1,22,24,18,14,9,8,10,7,15,23,2,5,17,4,0,3,20,25,6,21,19,12,16,11, } { 4,18,13,15,9,5,0,25,1,24,6,14,19,22,8,21,17,20,11,16,23,12,10,3,7,2, } { 3,17,12,14,8,4,25,24,0,23,5,13,18,21,7,20,16,19,10,15,22,11,9,2,6,1, } { 25,13,8,10,4,0,21,20,22,19,1,9,14,17,3,16,12,15,6,11,18,7,5,24,2,23, } { 20,8,3,5,25,21,16,15,17,14,22,4,9,12,24,11,7,10,1,6,13,2,0,19,23,18, } { 7,21,16,18,12,8,3,2,4,1,9,17,22,25,11,24,20,23,14,19,0,15,13,6,10,5, } { 11,25,20,22,16,12,7,6,8,5,13,21,0,3,15,2,24,1,18,23,4,19,17,10,14,9, } { 14,2,23,25,19,15,10,9,11,8,16,24,3,6,18,5,1,4,21,0,7,22,20,13,17,12, } { 0,14,9,11,5,1,22,21,23,20,2,10,15,18,4,17,13,16,7,12,19,8,6,25,3,24, } },</p>	<p>{ 21,24,6,13,2,19,12,9,10,3,23,11,25,15,17,14,0,8,18,7,1,20,16,4,22,5, } { 0,19,12,5,15,24,6,20,11,18,25,10,23,2,14,17,21,22,3,4,16,9,1,7,8,13, } { 24,23,10,4,1,25,11,6,13,20,8,5,22,16,15,2,19,17,9,21,18,12,3,0,14,7, } { 23,8,13,0,18,22,5,10,4,12,17,7,14,3,16,1,25,15,6,24,9,11,20,19,2,21, } { 9,6,17,16,21,12,14,8,15,25,10,2,11,0,4,7,20,13,23,18,24,22,19,3,5,1, } { 4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10, } { 7,21,9,10,14,0,20,18,6,16,24,12,19,17,8,22,4,23,1,5,2,3,15,13,25,11, } { 13,4,3,12,8,7,18,16,20,2,0,9,21,22,25,23,5,19,15,10,17,1,14,11,24,6, } { 5,7,18,6,22,4,3,1,9,15,21,20,0,8,23,25,13,24,2,11,14,16,17,10,19,12, } { 12,11,2,18,19,10,15,14,1,8,5,16,13,24,21,0,6,7,22,20,25,17,23,9,4,3, } { 2,1,24,8,11,16,19,21,23,4,18,25,3,10,6,12,15,9,7,14,5,0,13,17,20,22, } { 18,9,8,15,7,20,22,23,17,19,6,14,12,4,13,5,3,10,24,1,21,25,0,16,11,2, } { 14,2,21,23,12,15,0,7,24,13,1,19,16,6,9,20,17,18,5,22,11,4,10,8,3,25, } { 11,5,1,9,25,13,16,2,18,17,7,3,4,23,24,19,10,21,14,12,22,15,8,6,0,20, } { 4,0,20,11,17,21,9,3,12,1,19,6,24,14,22,8,7,25,16,13,15,18,2,5,23,10, } { 17,15,0,25,6,2,21,4,19,5,16,24,1,12,20,9,14,3,13,8,10,7,11,22,18,23, } { 8,17,4,19,9,14,7,13,0,11,15,21,2,20,3,18,22,16,10,23,6,5,12,25,1,24, } { 25,22,5,21,3,8,13,11,7,6,14,4,17,18,1,16,23,2,12,19,20,10,9,24,15,0, } </p>

<p>{19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6 }</p>	<p>{6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, 8, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12 }</p>
<p>{ }</p>	<p>{ }</p>
<p>{12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10, 25, 13, 8, 10, 4, 0, 21, 20, 22, 19, 1, 9, 14, 17, 3, 16, 12, 15, 6, 11, 18, 7, 5, 24, 2, 23, 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, 14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, 7, 21, 16, 18, 12, 8, 3, 2, 4, 1, 9, 17, 22, 25, 11, 24, 20, 23, 14, 19, 0, 15, 13, 6, 10, 5, 11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, 24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, 23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21, 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, 17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15, 19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, 3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1, 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, 20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18, 18, 6, 1, 3, 23, 19, 14, 13, 15, 12, 20, 2, 7, 10, 22, 9, 5, 8, 25, 4, 11, 0, 24, 17, 21, 16, 15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, 6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4, 5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, 22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, 9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7, 13, 1, 22, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, 16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14, 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, 21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, 10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8 }</p>	<p>{4, 0, 20, 11, 17, 21, 9, 3, 12, 1, 19, 6, 24, 14, 22, 8, 7, 25, 16, 13, 15, 18, 2, 5, 23, 10, 7, 21, 9, 10, 14, 0, 20, 18, 6, 16, 24, 12, 19, 17, 8, 22, 4, 23, 1, 5, 2, 3, 15, 13, 25, 11, 0, 19, 12, 5, 15, 24, 6, 20, 11, 18, 25, 10, 23, 2, 14, 17, 21, 22, 3, 4, 16, 9, 1, 7, 8, 13, 19, 25, 11, 7, 16, 23, 10, 12, 5, 9, 22, 13, 8, 1, 2, 15, 24, 14, 20, 0, 3, 6, 18, 21, 17, 4, 3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15, 5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, 13, 4, 3, 12, 8, 7, 18, 16, 20, 2, 0, 9, 21, 22, 25, 23, 5, 19, 15, 10, 17, 1, 14, 11, 24, 6, 11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20, 9, 6, 17, 16, 21, 12, 14, 8, 15, 25, 10, 2, 11, 0, 4, 7, 20, 13, 23, 18, 24, 22, 19, 3, 5, 1, 17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23, 16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, 8, 17, 4, 19, 9, 14, 7, 13, 0, 11, 15, 21, 2, 20, 3, 18, 22, 16, 10, 23, 6, 5, 12, 25, 1, 24, 2, 21, 23, 12, 15, 0, 7, 24, 13, 1, 19, 16, 6, 9, 20, 17, 18, 5, 22, 11, 4, 10, 8, 3, 25, 18, 9, 8, 15, 7, 20, 22, 23, 17, 19, 6, 14, 12, 4, 13, 5, 3, 10, 24, 1, 21, 25, 0, 16, 11, 2, 2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22, 23, 8, 13, 0, 18, 22, 5, 10, 4, 12, 17, 7, 14, 3, 16, 1, 25, 15, 6, 24, 9, 11, 20, 19, 2, 21, 1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14, 15, 16, 19, 22, 10, 1, 24, 0, 25, 7, 3, 23, 18, 11, 12, 6, 2, 20, 4, 17, 13, 21, 5, 14, 9, 8, 24, 23, 10, 4, 1, 25, 11, 6, 13, 20, 8, 5, 22, 16, 15, 2, 19, 17, 9, 21, 18, 12, 3, 0, 14, 7, 6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, 12, 11, 2, 18, 19, 10, 15, 14, 1, 8, 5, 16, 13, 24, 21, 0, 6, 7, 22, 20, 25, 17, 23, 9, 4, 3, 21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5, 22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19, 25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0, 20, 12, 14, 1, 0, 6, 17, 22, 2, 23, 11, 15, 10, 21, 7, 4, 9, 5, 25, 3, 19, 8, 24, 18, 13, 16, 10, 13, 16, 20, 23, 5, 1, 15, 3, 14, 4, 18, 7, 25, 19, 24, 11, 0, 17, 6, 8, 2, 22, 12, 21, 9 }</p>
<p>{ }</p>	<p>{ }</p>
<p>{9, 23, 18, 20, 14, 10, 5, 4, 6, 3, 11, 19, 24, 1, 13, 0, 22, 25, 16, 21, 2, 17, 15, 8, 12, 7, 22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, 23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5, 3, 22, 0, 21, 11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, 8, 22, 17, 19, 13, 9, 4, 3, 5, 2, 10, 18, 23, 0, 12, 25, 21, 24, 15, 20, 1, 16, 14, 7, 11, 6, 21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, 20, 8, 3, 5, 25, 21, 16, 15, 17, 14, 22, 4, 9, 12, 24, 11, 7, 10, 1, 6, 13, 2, 0, 19, 23, 18, 5, 19, 14, 16, 10, 6, 1, 0, 2, 25, 7, 15, 20, 23, 9, 22, 18, 21, 12, 17, 24, 13, 11, 4, 8, 3, 14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, 16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14, 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, 22, 10, 5, 7, 1, 23, 18, 17, 19, 16, 24, 6, 11, 14, 0, 13, 9, 12, 3, 8, 15, 4, 2, 21, 25, 20, 17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15, 15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, 12, 0, 21, 23, 17, 13, 8, 7, 9, 6, 14, 22, 1, 4, 16, 3, 25, 2, 19, 24, 5, 20, 18, 11, 15, 10, 3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1, 4, 18, 13, 15, 9, 5, 0, 25, 1, 24, 6, 14, 19, 22, 8, 21, 17, 20, 11, 16, 23, 12, 10, 3, 7, 2, 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, 21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, 24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, 19, 7, 2, 4, 24, 20, 15, 14, 16, 13, 21, 3, 8, 11, 23, 10, 6, 9, 0, 5, 12, 1, 25, 18, 22, 17, 6, 20, 15, 17, 11, 7, 2, 1, 3, 0, 8, 16, 21, 24, 10, 23, 19, 22, 13, 18, 25, 14, 12, 5, 9, 4, 10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8, 1, 2, 24, 18, 14, 9, 8, 10, 7, 15, 23, 2, 5, 17, 4, 0, 3, 20, 25, 6, 21, 19, 12, 16, 11, 16, 4, 25, 1, 21, 17, 12, 11, 13, 10, 18, 0, 5, 8, 20, 7, 3, 6, 23, 2, 9, 24, 22, 15, 19, 14, 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, 21, 9, 4, 6, 0, 22, 17, 16, 18, 15, 23, 5, 10, 13, 25, 12, 8, 11, 2, 7, 14, 3, 1, 20, 24, 19, 10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8 }</p>	<p>{5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, 13, 4, 3, 12, 8, 7, 18, 16, 20, 2, 0, 9, 21, 22, 25, 23, 5, 19, 15, 10, 17, 1, 14, 11, 24, 6, 7, 21, 9, 10, 14, 0, 20, 18, 6, 16, 24, 12, 19, 17, 8, 22, 4, 23, 1, 5, 2, 3, 15, 13, 25, 11, 21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5, 1, 18, 23, 17, 5, 3, 25, 24, 8, 0, 9, 22, 20, 13, 10, 11, 16, 6, 21, 2, 7, 19, 4, 15, 12, 14, 10, 13, 16, 20, 23, 5, 1, 15, 3, 14, 4, 18, 7, 25, 19, 24, 11, 0, 17, 6, 8, 2, 22, 12, 21, 9, 11, 5, 1, 9, 25, 13, 16, 2, 18, 17, 7, 3, 4, 23, 24, 19, 10, 21, 14, 12, 22, 15, 8, 6, 0, 20, 6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, 3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15, 5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19, 2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22, 25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0, 8, 17, 4, 19, 9, 14, 7, 13, 0, 11, 15, 21, 2, 20, 3, 18, 22, 16, 10, 23, 6, 5, 12, 25, 1, 24, 16, 3, 25, 14, 13, 18, 23, 19, 22, 21, 20, 8, 9, 5, 11, 10, 1, 12, 0, 15, 4, 24, 7, 2, 6, 17, 17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23, 19, 25, 11, 7, 16, 23, 10, 12, 5, 9, 22, 13, 8, 1, 2, 15, 24, 14, 20, 0, 3, 6, 18, 21, 17, 4, 3, 20, 22, 2, 4, 9, 8, 25, 14, 24, 12, 17, 6, 7, 5, 13, 18, 11, 19, 16, 0, 23, 21, 1, 10, 15, 5, 7, 18, 6, 22, 4, 3, 1, 9, 15, 21, 20, 0, 8, 23, 25, 13, 24, 2, 11, 14, 16, 17, 10, 19, 12, 14, 2, 21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5, 2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22, 25, 22, 5, 21, 3, 8, 13, 11, 7, 6, 14, 4, 17, 18, 1, 16, 23, 2, 12, 19, 20, 10, 9, 24, 15, 0, 22, 14, 7, 24, 20, 17, 4, 5, 21, 10, 2, 0, 15, 9, 18, 3, 8, 1, 11, 25, 12, 13, 6, 23, 16, 19, 21, 24, 6, 13, 2, 19, 12, 9, 10, 3, 23, 11, 25, 15, 17, 14, 0, 8, 18, 7, 1, 20, 16, 4, 22, 5, 2, 1, 24, 8, 11, 16, 19, 21, 23, 4, 18, 25, 3, 10, 6, 12, 15, 9, 7, 14, 5, 0, 13, 17, 20, 22, 23, 8, 13, 0, 18, 22, 5, 10, 4, 12, 17, 7, 14, 3, 16, 1, 25, 15, 6, 24, 9, 11, 20, 19, 2, 21, 17, 15, 0, 25, 6, 2, 21, 4, 19, 5, 16, 24, 1, 12, 20, 9, 14, 3, 13, 8, 10, 7, 11, 22, 18, 23, 24, 23, 10, 4, 1, 25, 11, 6, 13, 20, 8, 5, 22, 16, 15, 2, 19, 17, 9, 21, 18, 12, 3, 0, 14, 7, 6, 10, 15, 3, 24, 11, 2, 17, 16, 22, 13, 1, 5, 19, 0, 21, 12, 4, 8, 9, 23, 14, 25, 20, 7, 18, 12, 11, 2, 18, 19, 10, 15, 14, 1, 8, 5, 16, 13, 24, 21, 0, 6, 7, 22, 20, 25, 17, 23, 9, 4, 3 }</p>
<p>{ }</p>	<p>{ }</p>
<p>{15, 3, 24, 0, 20, 16, 11, 10, 12, 9, 17, 25, 4, 7, 19, 6, 2, 5, 22, 1, 8, 23, 21, 14, 18, 13, 2, 16, 11, 13, 7, 3, 24, 23, 25, 22, 4, 12, 17, 20, 6, 19, 15, 18, 9, 14, 21, 10, 8, 1, 5, 0, 3, 17, 12, 14, 8, 4, 25, 24, 0, 23, 5, 13, 18, 21, 7, 20, 16, 19, 10, 15, 22, 11, 9, 2, 6, 1, 17, 5, 0, 2, 22, 18, 13, 12, 14, 11, 19, 1, 6, 9, 21, 8, 4, 7, 24, 3, 10, 25, 23, 16, 20, 15, 10, 24, 19, 21, 15, 11, 6, 5, 7, 4, 12, 20, 25, 2, 14, 1, 23, 0, 17, 22, 3, 18, 16, 9, 13, 8, 14, 2, 23, 25, 19, 15, 10, 9, 11, 8, 16, 24, 3, 6, 18, 5, 1, 4, 21, 0, 7, 22, 20, 13, 17, 12, 1, 15, 10, 12, 6, 2, 23, 22, 24, 21, 3, 11, 16, 19, 5, 18, 14, 17, 8, 13, 20, 9, 7, 0, 4, 25, 0, 14, 9, 11, 5, 1, 22, 21, 23, 20, 2, 10, 15, 18, 4, 17, 13, 16, 7, 12, 19, 8, 6, 25, 3, 24, 11, 25, 20, 22, 16, 12, 7, 6, 8, 5, 13, 21, 0, 3, 15, 2, 24, 1, 18, 23, 4, 19, 17, 10, 14, 9, 24, 12, 7, 9, 3, 25, 20, 19, 21, 18, 0, 8, 13, 16, 2, 15, 11, 14, 5, 10, 17, 6, 4, 23, 1, 22, 23, 11, 6, 8, 2, 24, 19, 18, 20, 17, 25, 7, 12, 15, 1, 14, 10, 13, 4, 9, 16, 5,</p>	

{
{
{ 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 }
{ 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 }
{ 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 }
{ 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 }
{ 3,17,12,14, 8, 4,25,24, 0,23, 5,13,18,21, 7,20,16,19,10,15,22,11, 9, 2, 6, 1 }
{ 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 }
{ 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 }
{ 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 }
{ 0,14, 9,11, 5, 1,22,21,23,20, 2,10,15,18, 4,17,13,16, 7,12,19, 8, 6,25, 3,24 }
{ 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 }
{ 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 }
{ 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 }
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 }
{ 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
{ 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 }
{ 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 }
{ 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 }
{ 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 }
{ 6,20,15,17,11, 7, 2, 1, 3, 0, 8,16,21,24,10,23,19,22,13,18,25,14,12, 5, 9, 4 }
}
}
{ 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 }
{ 3,17,12,14, 8, 4,25,24, 0,23, 5,13,18,21, 7,20,16,19,10,15,22,11, 9, 2, 6, 1 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 }
{ 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
{ 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 }
{ 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 }
{ 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 }
{ 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 }
{ 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 }
{ 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 }
{ 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 }
{ 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 }
{ 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
{ 0,14, 9,11, 5, 1,22,21,23,20, 2,10,15,18, 4,17,13,16, 7,12,19, 8, 6,25, 3,24 }
{ 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 }
{ 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 }
{ 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 }
{ 6,20,15,17,11, 7, 2, 1, 3, 0, 8,16,21,24,10,23,19,22,13,18,25,14,12, 5, 9, 4 }
{ 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 }
{ 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 }
}
}
{ 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 }
{ 0,14, 9,11, 5, 1,22,21,23,20, 2,10,15,18, 4,17,13,16, 7,12,19, 8, 6,25, 3,24 }
{ 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 }
{ 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 }
{ 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 }
{ 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 }
{ 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 }
{ 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 }
{ 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
{ 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 }
{ 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 }
{ 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 }
{ 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 }
{ 6,20,15,17,11, 7, 2, 1, 3, 0, 8,16,21,24,10,23,19,22,13,18,25,14,12, 5, 9, 4 }
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 }
{ 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 }
{ 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 }
{ 3,17,12,14, 8, 4,25,24, 0,23, 5,13,18,21, 7,20,16,19,10,15,22,11, 9, 2, 6, 1 }
{ 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 }
{ 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 }
}
}
}

{
{
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 }
{ 5, 7,18, 6,22, 4, 3, 1, 9,15,21,20, 0, 8,23,25,13,24, 2,11,14,16,17,10,19,12 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
{ 9, 6,17,16,21,12,14, 8,15,25,10, 2,11, 0, 4, 7,20,13,23,18,24,22,19, 3, 5, 1 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19, 8,24,18,13,16 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 }
{ 8,17, 4,19, 9,14, 7,13, 0,11,15,21, 2,20, 3,18,22,16,10,23, 6, 5,12,25, 1,24 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 }
{ 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 }
{ 7,21, 9,10,14, 0,20,18, 6,16,24,12,19,17, 8,22, 4,23, 1, 5, 2, 3,15,13,25,11 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
}
}
{ 9, 6,17,16,21,12,14, 8,15,25,10, 2,11, 0, 4, 7,20,13,23,18,24,22,19, 3, 5, 1 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19, 8,24,18,13,16 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 8,17, 4,19, 9,14, 7,13, 0,11,15,21, 2,20, 3,18,22,16,10,23, 6, 5,12,25, 1,24 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
{ 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 7,21, 9,10,14, 0,20,18, 6,16,24,12,19,17, 8,22, 4,23, 1, 5, 2, 3,15,13,25,11 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 }
{ 5, 7,18, 6,22, 4, 3, 1, 9,15,21,20, 0, 8,23,25,13,24, 2,11,14,16,17,10,19,12 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 }
{ 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
}
}
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19, 8,24,18,13,16 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 }
{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 }
{ 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
}
}
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19, 8,24,18,13,16 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,

{14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 }
{ 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 }
{ 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 }
{ 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 }
{ 0,14, 9,11, 5, 1,22,21,23,20, 2,10,15,18, 4,17,13,16, 7,12,19, 8, 6,25, 3,24 }
{ 25,13, 8,10, 4, 0,21,20,22,19, 1, 9,14,17, 3,16,12,15, 6,11,18, 7, 5,24, 2,23 }
{ 10,24,19,21,15,11, 6, 5, 7, 4,12,20,25, 2,14, 1,23, 0,17,22, 3,18,16, 9,13, 8 }
{ 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 }
{ 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 }
{ 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
{ 6,20,15,17,11, 7, 2, 1, 3, 0, 8,16,21,24,10,23,19,22,13,18,25,14,12, 5, 9, 4 }
{ 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 }
{ 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 }
{ 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 }
{ 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 }
{ 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 }
{ 3,17,12,14, 8, 4,25,24, 0,23, 5,13,18,21, 7,20,16,19,10,15,22,11, 9, 2, 6, 1 }
{ 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 }
{ 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 }
}
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 16, 4,25, 1,21,17,12,11,13,10,18, 0, 5, 8,20, 7, 3, 6,23, 2, 9,24,22,15,19,14 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 1,15,10,12, 6, 2,23,22,24,21, 3,11,16,19, 5,18,14,17, 8,13,20, 9, 7, 0, 4,25 }
{ 14, 2,23,25,19,15,10, 9,11, 8,16,24, 3, 6,18, 5, 1, 4,21, 0, 7,22,20,13,17,12 }
{ 13, 1,22,24,18,14, 9, 8,10, 7,15,23, 2, 5,17, 4, 0, 3,20,25, 6,21,19,12,16,11 }
{ 24,12, 7, 9, 3,25,20,19,21,18, 0, 8,13,16, 2,15,11,14, 5,10,17, 6, 4,23, 1,22 }
{ 7,21,16,18,12, 8, 3, 2, 4, 1, 9,17,22,25,11,24,20,23,14,19, 0,15,13, 6,10, 5 }
{ 9,23,18,20,14,10, 5, 4, 6, 3,11,19,24, 1,13, 0,22,25,16,21, 2,17,15, 8,12, 7 }
{ 19, 7, 2, 4,24,20,15,14,16,13,21, 3, 8,11,23,10, 6, 9, 0, 5,12, 1,25,18,22,17 }
{ 20, 8, 3, 5,25,21,16,15,17,14,22, 4, 9,12,24,11, 7,10, 1, 6,13, 2, 0,19,23,18 }
{ 8,22,17,19,13, 9, 4, 3, 5, 2,10,18,23, 0,12,25,21,24,15,20, 1,16,14, 7,11, 6 }
{ 5,19,14,16,10, 6, 1, 0, 2,25, 7,15,20,23, 9,22,18,21,12,17,24,13,11, 4, 8, 3 }
{ 22,10, 5, 7, 1,23,18,17,19,16,24, 6,11,14, 0,13, 9,12, 3, 8,15, 4, 2,21,25,20 }
{ 21, 9, 4, 6, 0,22,17,16,18,15,23, 5,10,13,25,12, 8,11, 2, 7,14, 3, 1,20,24,19 }
{ 17, 5, 0, 2,22,18,13,12,14,11,19, 1, 6, 9,21, 8, 4, 7,24, 3,10,25,23,16,20,15 }
{ 2,16,11,13, 7, 3,24,23,25,22, 4,12,17,20, 6,19,15,18, 9,14,21,10, 8, 1, 5, 0 }
{ 11,25,20,22,16,12, 7, 6, 8, 5,13,21, 0, 3,15, 2,24, 1,18,23, 4,19,17,10,14, 9 }
{ 15, 3,24, 0,20,16,11,10,12, 9,17,25, 4, 7,19, 6, 2, 5,22, 1, 8,23,21,14,18,13 }
{ 18, 6, 1, 3,23,19,14,13,15,12,20, 2, 7,10,22, 9, 5, 8,25, 4,11, 0,24,17,21,16 }
{ 4,18,13,15, 9, 5, 0,25, 1,24, 6,14,19,22, 8,21,17,20,11,16,23,12,10, 3, 7, 2 }
{ 23,11, 6, 8, 2,24,19,18,20,17,25, 7,12,15, 1,14,10,13, 4, 9,16, 5, 3,22, 0,21 }
{ 12, 0,21,23,17,13, 8, 7, 9, 6,14,22, 1, 4,16, 3,25, 2,19,24, 5,20,18,11,15,10 }
}

{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 9, 6,17,16,21,12,14, 8,15,25,10, 2,11, 0, 4, 7,20,13,23,18,24,22,19, 3, 5, 1 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 }
{ 5, 7,18, 6,22, 4, 3, 1, 9,15,21,20, 0, 8,23,25,13,24, 2,11,14,16,17,10,19,12 }
{ 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 }
{ 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 }
{ 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 }
{ 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 }
{ 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 7,21, 9,10,14, 0,20,18, 6,16,24,12,19,17, 8,22, 4,23, 1, 5, 2, 3,15,13,25,11 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19,8,24,18,13,16 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 8,17, 4,19, 9,14, 7,13, 0,11,15,21, 2,20, 3,18,22,16,10,23, 6, 5,12,25, 1,24 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
}
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
}
{ 15,16,19,22,10, 1,24, 0,25, 7, 3,23,18,11,12, 6, 2,20, 4,17,13,21, 5,14, 9, 8 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
}
{ 14, 2,21,23,12,15, 0, 7,24,13, 1,19,16, 6, 9,20,17,18, 5,22,11, 4,10, 8, 3,25 }
{ 17,15, 0,25, 6, 2,21, 4,19, 5,16,24, 1,12,20, 9,14, 3,13, 8,10, 7,11,22,18,23 }
{ 2, 1,24, 8,11,16,19,21,23, 4,18,25, 3,10, 6,12,15, 9, 7,14, 5, 0,13,17,20,22 }
{ 1,18,23,17, 5, 3,25,24, 8, 0, 9,22,20,13,10,11,16, 6,21, 2, 7,19, 4,15,12,14 }
{ 7,21, 9,10,14, 0,20,18, 6,16,24,12,19,17, 8,22, 4,23, 1, 5, 2, 3,15,13,25,11 }
{ 8,17, 4,19, 9,14, 7,13, 0,11,15,21, 2,20, 3,18,22,16,10,23, 6, 5,12,25, 1,24 }
{ 22,14, 7,24,20,17, 4, 5,21,10, 2, 0,15, 9,18, 3, 8, 1,11,25,12,13, 6,23,16,19 }
{ 23, 8,13, 0,18,22, 5,10, 4,12,17, 7,14, 3,16, 1,25,15, 6,24, 9,11,20,19, 2,21 }
{ 0,19,12, 5,15,24, 6,20,11,18,25,10,23, 2,14,17,21,22, 3, 4,16, 9, 1, 7, 8,13 }
{ 12,11, 2,18,19,10,15,14, 1, 8, 5,16,13,24,21, 0, 6, 7,22,20,25,17,23, 9, 4, 3 }
{ 5, 7,18, 6,22, 4, 3, 1, 9,15,21,20, 0, 8,23,25,13,24, 2,11,14,16,17,10,19,12 }
{ 20,12,14, 1, 0, 6,17,22, 2,23,11,15,10,21, 7, 4, 9, 5,25, 3,19,8,24,18,13,16 }
{ 6,10,15, 3,24,11, 2,17,16,22,13, 1, 5,19, 0,21,12, 4, 8, 9,23,14,25,20, 7,18 }
{ 4, 0,20,11,17,21, 9, 3,12, 1,19, 6,24,14,22, 8, 7,25,16,13,15,18, 2, 5,23,10 }
{ 10,13,16,20,23, 5, 1,15, 3,14, 4,18, 7,25,19,24,11, 0,17, 6, 8, 2,22,12,21, 9 }
{ 3,20,22, 2, 4, 9, 8,25,14,24,12,17, 6, 7, 5,13,18,11,19,16, 0,23,21, 1,10,15 }
{ 13, 4, 3,12, 8, 7,18,16,20, 2, 0, 9,21,22,25,23, 5,19,15,10,17, 1,14,11,24, 6 }
{ 11, 5, 1, 9,25,13,16, 2,18,17, 7, 3, 4,23,24,19,10,21,14,12,22,15, 8, 6, 0,20 }
{ 16, 3,25,14,13,18,23,19,22,21,20, 8, 9, 5,11,10, 1,12, 0,15, 4,24, 7, 2, 6,17 }
{ 19,25,11, 7,16,23,10,12, 5, 9,22,13, 8, 1, 2,15,24,14,20, 0, 3, 6,18,21,17, 4 }
{ 24,23,10, 4, 1,25,11, 6,13,20, 8, 5,22,16,15, 2,19,17, 9,21,18,12, 3, 0,14, 7 }
{ 18, 9, 8,15, 7,20,22,23,17,19, 6,14,12, 4,13, 5, 3,10,24, 1,21,25, 0,16,11, 2 }
{ 9, 6,17,16,21,12,14, 8,15,25,10, 2,11, 0, 4, 7,20,13,23,18,24,22,19, 3, 5, 1 }
{ 21,24, 6,13, 2,19,12, 9,10, 3,23,11,25,15,17,14, 0, 8,18, 7, 1,20,16, 4,22, 5 }
{ 25,22, 5,21, 3, 8,13,11, 7, 6,14, 4,17,18, 1,16,23, 2,12,19,20,10, 9,24,15, 0 }