Matrix Rotation

One day, Jojo was being taught about matrix. The lesson given is boring enough for Jojo because Jojo already understands about matrix including 90,180,270 and 360 degree matrix rotations. When Jojo daydreams while looking at a 3 by 3 matrix, Jojo's hands accidentally rotate the matrix to form a matrix that starts with a square to a diamond. Seeing the shape, Jojo was inspired to make a 45-degree clockwise rotation of the matrix.

Note : There are no trailing spaces after the last letter.

Format Input

Consists of 3 lines where each line has 3 uppercase letter X.

Format Output

Output in the form of 5 lines with the format as shown below.

Constraints

- 'A' ≤ X ≤ 'Z'

Sample Input (standard input)

```
A B C
D E F
G H I
```

Sample Output (standard output)

```
  A
 D B
G E C
 H F
  I
```

Matrix Rotation

Suatu hari, Jojo sedang diajari mengenai matriks. Pelajaran yang diberikan cukup membosankan bagi Jojo karena Jojo sudah mengerti mengenai matriks termasuk rotasi matriks 90,180,270 dan 360 derajat. Ketika Jojo melamun sambil menatap pada sebuah matriks 3 x 3, tangan Jojo secara tidak sengaja memutar matriks tersebut sehingga bentuk matriks yang awalnya persegi menjadi belah ketupat. Melihat bentuk tersebut, Jojo terinspirasi membuat rotasi matriks sebanyak 45 derajat searah jarum jam.

Note : tidak terdapat spasi dibelakang huruf terakhir.

Format Input

Terdapat 3 baris dimana setiap barisnya terdapat 3 huruf besar X.

Format Output

Berupa 5 baris dengan format seperti contoh dibawah.

Constraints

- 'A' $\leq X \leq$ 'Z'

Sample Input (standard input)

```
A B C
D E F
G H I
```

Sample Output (standard output)

```
  A
 D B
G E C
 H F
  I
```