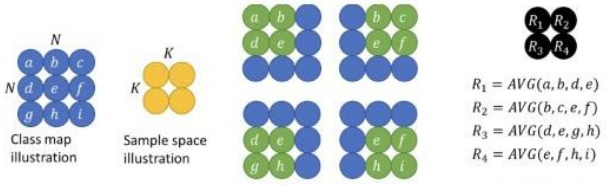
PROB A

Position Determine Achievement

Sebuah kelas berbentuk persegi diisi murid-murid yang duduk pada posisi $N \times N$. Seorang guru hendak melakukan penelitian tentang hubungan posisi duduk seorang anak di dalam kelas terhadap prestasinya. Penelitian dilakukan dengan cara mengajar seperti biasa dan menguji murid-murid tersebut untuk mendapatkan nilai masing-masing, n dimana nilai maksimumnya adalah 1000. Setelah selesai ujian, guru akan mengambil sampel berukuran $K \times K$ anak secara berurutan dan menghitung rata-ratanya seperti ilustrasi dibawah.



$R_1 = AVG(a, b, d, e)$
$R_2 = AVG(b, c, e, f)$
$R_3 = AVG(d, e, g, h)$
$R_4 = AVG(e, f, h, i)$

Result illustration

Bantulah guru tersebut menghitung nilai rata-rata setiap region sample murid-murid apabila nilai telah diketahui.

Format Input:

Input dimulai dengan meminta T kasus, lalu disusul banyaknya murid dalam satu baris atau kolom, N. Kemudian program akan meminta $N \times N$ nilai masing-masing murid, n. Berikutnya, program akan meminta ukuran sampling space, K.

Format Output:

Untuk setiap kasus, program akan mengeluarkan output berupa matrix. Seperti tertera pada contoh.

Constraints:

$$1 \leq T \leq 10$$
$$3 \leq N \leq 100$$
$$2 \leq K \leq N$$
$$0 \leq n \leq 1000$$

Contoh:

Input	Output
1 3 588.50 551.25	625.75 707.25

2 771.00 842.00 789.00 359.00 531.00 667.00 579.00 885.00 122.00	
2 3 3 235.00 407.00 269.00 210.00 837.00 791.00 12.00 873.00 472.00 5 4 14.00 288.00 780.00 371.00 742.00 957.00 123.00 883.00 888.00 434.00 422.00 509.00 237.00 944.00 629.00 124.00 26.00 620.00 265.00 13.00 899.00 949.00 347.00 672.00 11.00	456.22 465.69 484.50 554.06 471.88

PROB B

Match

Bibi is playing a set of number with Lili. There are N number in the set. Each of them pick one location of the number they choose. The winner is someone who luckily get the bigger number. Help them to determine who is the winner from each round.

Format Input

The first line of the input contains an integer T, the number of test case. The next T line contains an integer N. The next line contains N integer A_i, the number in the set. The next line contains 2 number P and Q, the location of the number Bibi and Lili choose.

Format Output

For each test case, print "`Case #X : Y`" with X is the number of test case and Y is the winner from each round. Print "`Draw`" if there is no winner.

Constraints

This section contains some given constraints. The judges guaranteed that the provided input always satisfy the constraints of its problems.

- $1 \leq T \leq 100$
- $1 \leq N \leq 1,000$
- $-10,000 \leq A_i \leq 10,000$
- $1 \leq P, Q \leq N$
- $P \neq Q$

Sample Input (standard input)

```
3
10
1 2 3 4 5 6 7 8 9 10
3 5
8
1 1 1 1 1 1 1 1
7 6
5
-999 3 9 12 0
5 1
```


Sample Output (standard output)

```
Case #1 : Lili
Case #2 : Draw
Case #3 : Bibi
```

PROB C

Clever Math

Lili challenged Jojo to add two numbers A and B without using carry over. For example, $999 + 110 = 009$. Hence, the answer is 9. Another example is $99 + 999 = 988$. Hence, the answer is 988.

Format Input

The input will consists of multiple test cases. The first line of the input contains an integer T the number of test cases. For every cases it contains two integers A and B separated by a space.

Format Output

For each test case, print "`Case #X: Y`" where X is the number of the test case starting at 1 and Y is the result without leading zero.

Constraints

- $1 \leq T \leq 100$
- $0 \leq A, B \leq 10^6$

Sample Input 1 (standard input)

```
4
999 110
99 999
99 11
99 1
```

Sample Output 1 (standard output)

```
Case #1: 9
Case #2: 988
Case #3: 0
Case #4: 90
```

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Sample Input 2 (standard input)

```
5
0 0
1 1
2 2
3 3
4 4
```

Sample Output 2 (standard output)

```
Case #1: 0
Case #2: 2
Case #3: 4
Case #4: 6
Case #5: 8
```

Sample Input 3 (standard input)

```
5
5 5
6 6
7 7
8 8
9 9
```

Sample Output 3 (standard output)

```
Case #1: 0
Case #2: 2
Case #3: 4
Case #4: 6
Case #5: 8
```