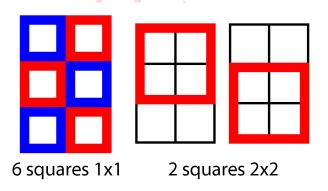


Squares

Given a rectangle with size $N \times M$. Within that rectangle, Jojo curious about how many squares of various sizes that could be formed. For example, there are 8 squares that can be constructed from rectangle with size 3×2 .



Format Input

Input consists of integers T which is the number of test cases. The next T line contains integers N and M separated by spaces.

Format Output

Output contains "Case #X: Y" where X is the number of test cases starting at 1 and Y is a set of squares that can be made from a given rectangle.

Constraints

- $1 \le T \le 100$
- $1 \le N, M \le 10$

Sample Input 1 (standard input)

1		
2 2		

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Sample Output 1 (standard output)

Case #1: 5

Sample Input 2 (standard input)

2 2 3 3 2

Sample Output 2 (standard output)

Case #1: 8
Case #2: 8

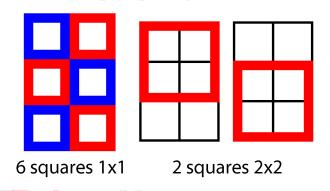


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Squares

Diberikan sebuah bujur sangkar berukuran $N \times M$. Pada bujur sangkar tersebut, Jojo penasaran berapa buah persegi dengan berbagai ukuran yang dapat dibentuk. Contohnya, ada 8 buah persegi yang dapat dibentuk dari bujur sangkar berukuran 3×2 .



Format Input

Input terdiri dari bilangan bulat T yang merupakan banyaknya kasus uji. T baris berikutnya berisi bilangan bulat N dan M yang dipisahkan oleh spasi.

Format Output

Output berisi "Case #X: Y" dimana X adalah nomor kasus uji mulai dari 1 dan Y adalah banyaknya persegi yang dapat dibentuk dari bujur sangkar yang diberikan.

Constraints

- $1 \le T \le 100$
- $1 \le N, M \le 10$

Sample Input 1 (standard input)

1		
2 2	7	

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Sample Output 1 (standard output)

Case #1: 5

Sample Input 2 (standard input)

2 2 3 3 2

Sample Output 2 (standard output)

Case #1: 8
Case #2: 8



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