

Problem C

Find Da Best Score

Time limit: 1 second

Today Jeremi get a little game from his friend. The game is called Find the Best Score. So the game is as follows : There is a grid with $N \times M$ size. All squares in that grid have numbers. You start from the top left square and finish at bottom right square. You can move up, right, down, and left, but you cannot move to a square you already taken. Your score is the mode(the value that occurs most) from all numbers in your path.

So here is an example with 3×3 size grid.

1	2	3
1	1	1
2	3	1

One example of best/answer path is :

1	2	3
1	1	1
2	3	1

That path has mode of number 1, with occurence 5 times.

Input

First line contains T , the number of test cases. ($1 \leq T \leq 100$)

For each test case, first line will contain N and M , size for the grid (N top to bottom, M left to right respectively), ($1 \leq N, M \leq 300$).

Then N lines follow, each containing M numbers, for $G_{n,m}$ ($1 \leq \text{number} \leq 100$).

Output

For each test case, print "Case #c: X" without quotes, with c the number test case, and X is the largest mode you can get from a valid path.

Sample Input:	Sample Output:
2	Case #1: 5
3 3	Case #2: 1
1 2 3	
1 1 1	
2 3 1	
2 3	
1 2 3	
4 5 6	