## **Find the Winner**

N students of AIUB are playing point based Card game. Each of its M round all of N players will get different points. After M rounds all players will calculate their total point by summing up their points of all M rounds. Then among the students the winner will be the person having the maximum point. Now you have to calculate the maximum point among all players after the M round.

## Input

The input file starts with an integer T (1<=T<=100) the number of test cases. Each case will start with two integer N and M where N(1<=N<=100) denotes the number of players and M(1<=N<=100) denotes the number of rounds. Then next each of M lines contains N positive integers Pi(0<=Pi<=100000000000) where Pi is the point of i-th player.

## Output

For every case print the maximum point among all players. Every new case should be printed in a new line.

## Example

Output:

20 95