## 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 $\mathrm{T}(1<=\mathrm{T}<=100)$ the number of test cases. Each case will start with two integer N and M where $\mathrm{N}(1<=\mathrm{N}<=100)$ denotes the number of players and $\mathrm{M}(1<=\mathrm{N}<=100)$ denotes the number of rounds. Then next each of M lines contains N positive integers $\mathrm{Pi}(0<=\mathrm{Pi}<=1000000000000)$ 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

## Input:

2
43
7835
5671
3699
32
507595
10100

## Output:

20
95

