## Annie's 18th Birthday

Today is Annie's 18th birthday. So Uncle John has given her N boxes of chocolate as a gift. But there is a restriction; she can't take all the boxes of chocolate. She can take exactly M boxes of chocolate and rest of the boxes will be given her younger brother. $i^{\text {th }}$ box contains $x_{i}$ chocolates. Now UncleJohn shuffles all the boxes. Now Annie chooses M boxes blindly. What is the maximum and minimum number of chocolate that she can get?

## Input:

Input starts with an integer $\mathrm{T}(\mathrm{T} \leq 100)$ denoting the number of test cases. Each case starts with two space separated integers $N$ and $M(1 \leq N \leq 1000)$, $(1 \leq M \leq N)$. Then next $N$ line contains $N$ integers, where $\mathrm{i}^{\text {th }}$ integer denotes the number of chocolate $\mathrm{xi}\left(1 \leq \mathrm{x}_{\mathrm{i}} \leq 1000\right)$ in the $\mathrm{i}^{\text {th }}$ box.

## Output:

For each case, print the case number, maximum and minimum number of chocolate that Annie can get.

## Sample:

| Input | Output |
| :--- | :--- |
| 2 |  |
| 52 | Case 1:93 |
| 13452 | Case 2:1515 |
| 55 |  |
| 14532 |  |

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