# Halum and Candies

Halum has been elected as the captain of his school's football team. To celebrate this, he is going to throw a party. Halum bought candies of **N** different flavors for the party. There are $\mathbf{a_i}$ number of candies of the $\mathbf{i^{th}}$ flavor where **(1 ≤ i ≤ N)**. To satisfy a guest he has to give him/her some positive number of candies of at least **K** different flavors. Otherwise the guest is not satisfied. Given this information now you have to find the maximum number of guests Halum can satisfy with the available candies.

## Input

First line of the input contains an integer **T (1 ≤ T ≤ 200)**, denoting the number of test cases. **T** cases follow.
First line of each case contains two integers **N** and **K (1 ≤ K ≤ N ≤ 1000)**. **N** space separated integers $\mathbf{a_1, a_2 \ldots a_N}$ follow in the next line **(0 ≤ $a_i$ ≤ 10^9)**. The $\mathbf{i^{th}}$ of these integers $\mathbf{a_i}$ denotes the number of candies of $\mathbf{i^{th}}$ flavor **(1 ≤ i ≤ N)**.

## Output

For each case print one line containing "**Case X: Y**" (without the quotes) where **X** is the case number starting from **1** and **Y** is an integer denoting the maximum number of guests who can be satisfied.

## Example

**Input:**
3
3 3
1 2 3
3 1
1 2 3
3 2
3 2 4

**Output:**
Case 1: 1
Case 2: 6
Case 3: 4