WEEK 08

1. Coders here is a simple task for you, you have given an array of size N and an integer M.

Your task is to calculate the difference between maximum sum and minimum sum of N-M

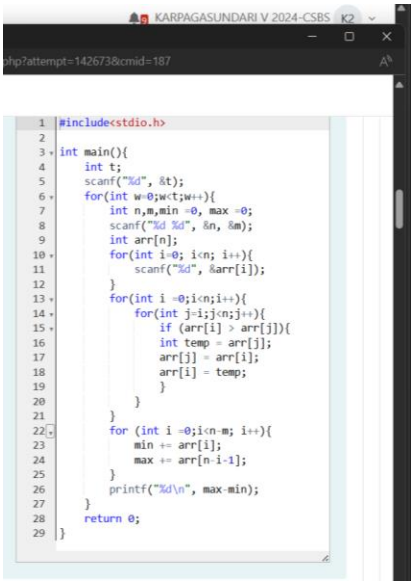
elements of the given array.

Input Format: First line contains an integer T denoting the number of testcases.First line of every testcase contains two integer N and M.Next line contains N space separated integers denoting the elements of array

Output:

For every test case print your answer in new line

Program:



Output:

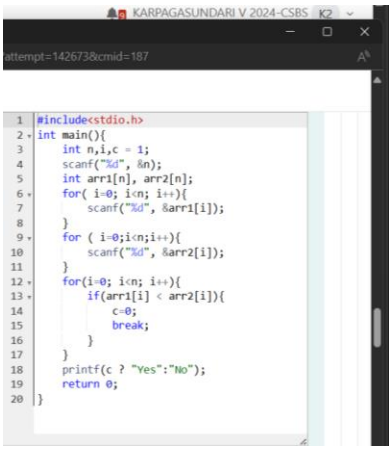
2. You are given an array A of non-negative integers of size m. Your task is to sort the array

in nondecreasing order and print out the original indices of the new sorted array.

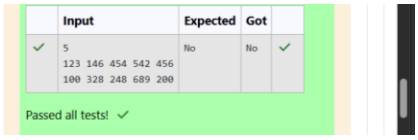
Input Format: The first line of input consists of the size of the array .The next line consists of the array of size m

Output Format: Output consists of a single line of integers

Problem:



Output:



3. A new deadly virus has infected large population of a planet. A brilliant scientist has discovered a new strain of virus which can cure this disease. Vaccine produced from this virus has various strength depending on midichlorians count. A person is cured only if midichlorians count in vaccine batch is more than midichlorians count of person. A doctor receives a new set of report which contains midichlorians count of each infected patient, Practo stores all vaccine doctor has and their midichlorians count. You need to determine if doctor can save all patients with the vaccines he has. The number of vaccines and patients are equal.

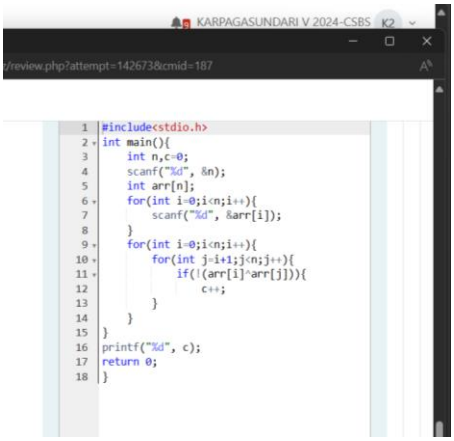
Input Format

First line contains the number of vaccines - N. Second line contains N integers, which are strength of vaccines. Third line contains N integers, which are midichlorians count of patients.

Output Format

Print a single line containing 'Yes' or 'No'.

Program:



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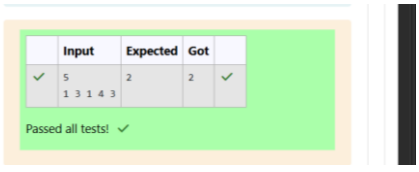

4. You are given an array of n integer numbers a1, a2, . . . , an. Calculate the number of pair of indices (i, j) such that 1 ≤ i < j ≤ n and ai xor aj = 0.

Input format

- First line: n denoting the number of array elements

- Second line: n space separated integers a1, a2, . . . , an.

Output format

Output the required number of pairs.

Problem: