**Rapid Coding Tournament (Question Sets):**

**Round 1:**

# Check whether two strings contain same characters in same order

Given two strings **s1** and **s2**, the task is to find whether the two string contain the same characters that occur in the same order. For example: string **“Geeks”** and string **“Geks”**contain the same charcters in same order.

**Examples:**

***Input:****s1 = “Geeks”, s2 = “Geks”****Output:****Yes*

***Input:****s1 = “Arnab”, s2 = “Andrew”****Output:****No*

**Round 2:**

Sort an array without changing position of negative numbers

Given an array **arr[]** of **N** integers, the task is to sort the array without changing the position of negative numbers (if any) i.e. the negative numbers need not be sorted.

**Examples:**

***Input:****arr[] = {2, -6, -3, 8, 4, 1}****Output:****1 -6 -3 2 4 8*

***Input:****arr[] = {-2, -6, -3, -8, 4, 1}****Output:****-2 -6 -3 -8 1 4*

**Round 3:**

# Find minimum difference between any two elements | Set 2

Given an unsorted array **arr[]** of size **n**, the task is to find the minimum difference between any pair in the given array.

***Input:****arr[] = {1, 2, 3, 4}****Output:****1  
The possible absolute differences are:  
{1, 2, 3, 1, 2, 1}*

***Input:****arr[] = {10, 2, 5, 4}****Output:****1*

**Final Round:**

**Handshake Problem**

At the annual meeting of Board of Directors of Acme Inc, every one starts shaking hands with everyone else in the room. Given the fact that any two persons shake hand exactly once, Can you tell the total count of handshakes?

**Input Format**   
The first line contains the number of test cases T, T lines follow.   
Each line then contains an integer N, the total number of Board of Directors of Acme.

**Output Format**

Print the number of handshakes for each test-case in a new line.

**Constraints**

1 <= T <= 1000   
0 < N < 106

**Sample Input**

2

1

2

**Sample Output**

0

1

**Explanation**

Case 1 : The lonely board member shakes no hands, hence 0.   
Case 2 : There are 2 board members, 1 handshake takes place.