**Code Test 1**

**Alternate Sorting of Numbers**

Given an array of N integers, rearrange the array in such a way that the first element is first maximum, second element is first minimum, third element is second maximum, fourth element is second minimum and so on.

**Input Format:**  
The first line contains the value of the N integers separated by one or more spaces.

**Boundary Conditions:**  
4 <= N <= 100

**Output Format:**  
The N numbers alternately sorted as per the given instructions.

**Example Input/Output 1:**  
Input:  
1 2 3 4 5 6 7

Output:  
7 1 6 2 5 3 4

**Example Input/Output 2:**  
Input:  
10 99 44 22 56 63

Output:  
99 10 63 22 56 44

**Example Input/Output 3:**  
Input:  
9 5 6 9 3 2 5

Output:  
9 2 9 3 6 5 5

**Code test 2**

**Sum of two primes**

Write a program to find if a given number N can be expressed as a sum of two prime numbers.

**Note: YOU MUST OPTIMIZE the logic to find whether a number is prime or not, as very large prime numbers are provided as input. If the logic is not optimized your program will NOT get executed within the given time limit.**

**Input Format:**  
First line contains total number of test cases, denoted by T  
Next T lines will contain the value of N for each testcase.

**Output Format:**  
T lines containing either yes or no

**Boundary Conditions / Constraints:**  
1 <= T <= 25  
3 <= N <= 10^9

**Example Input/Output 1:**  
Input:  
5  
20  
12  
23  
34  
16

Output:  
yes  
yes  
no  
yes  
yes

Explanation:  
20 can be expressed as 17+3  
12 can be expressed as 7+5  
23 cannot be expressed as sum of two primes  
34 can be expressed as 31+3 or 11+23 or 17+17  
16 can be expressed as 11+5

**Code test 3**

**No Consecutive Digit Substring Count**

Orlando wants to print the count of substrings in a digit string value S (which contains only digits 0 to 9) based on the condition that the given substring cannot contain two consecutive digits repeated.

**Input Format:**  
First line contains total number of test cases, denoted by T  
Next T lines will contain the value of S.

**Output Format:**  
The count of the substrings which do not contain two consecutive digits repeated.

**Boundary Conditions / Constraints:**  
1 <= T <= 25  
1 <= Length of S <= 100000

**Example Input/Output 1:**  
Input:  
3  
14886  
1056  
776

Output:  
9  
10  
4

Explanation:  
For 14886, the possible 9 substrings are 1,4,8,8,6,14,48,86,148  
For 1056, the possible 10 substrings are 1,0,5,6,10,05,56,105,056,1056  
For 776, the possible 4 substrings are 7,7,6,76