# **Pair of Primes**

Given an integer *n* 

(between 1 and 104) find two prime numbers (possibly same) p1,p2 such that p1+p2=n In case there are multiple solutions, you can output **any** of them.

If there is no solution, then print -1 -1 instead.

### Input

First line contains an integer *T* 

, denoting the number of testcases

First and only line of each testcase contains a single integer *n* 

### **Output**

For each testcase print two space separated primes, p1,p2 such that p1+p2=n

#### **Constraints**

1*STS*104

1≤∑over all testcases*n*≤104

## **Sample Input**

3 4

5

1

## **Sample Output**

2 2

2 3

-1 -1

# **Explanation**

2, 3 are both primes numbers and 2 + 2 = 4, 2 + 3 = 5

1 is smaller than every prime number, and so there are no solution in this case, so we have to print - 1 -1 instead.