- **EASY**
- **Max Score: 30 Points**

Prime Sum

Given an even number (greater than 2), Print two prime numbers whose sum will be equal to given number.

If there are more than one solutions possible, Print the lexicographically smaller solution.

Input Format:

First line contains integer N

Output Format:

Two integers separated by space

Example 1:

Input

4

Output

2 2

Constraints:

$4 <= n <= 10^9$

- **Math**

My code

```java
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{

    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    for(int i=2;i<n;i++)
      {
      int p=1;
      for(int j=2;j<=i/2;j++)
      if(i%j==0)
      {p=0; break;}

      int q=1;
      for(int j=2;j<=(n-i)/2;j++)
      if((n-i)%j==0)
      {q=0; break;}
```

```java
    if(p==1)
      if(q==1)
      {
        System.out.print(i+" "+(n-i));
        break;
      }
    }
    }
}
```