**Prime number**

You are given an integer N. You need to print the series of all prime numbers till N.

Input Format

The first and only line of the input contains a single integer N denoting the number till where you need to find the series of prime number.

Output Format

Print the desired output in single line separated by spaces.

Constraints

1<=N<=1000

**SAMPLE INPUT**

9

**SAMPLE OUTPUT**

2 3 5 7