# Problem A. A

Time limit 3000 ms

Mem limit 262144 kB

OS Windows

Given a number N. Print all  $\operatorname{\textbf{prime}}$  numbers between  $\operatorname{\textbf{1}}$  and N inclusive.

A prime number is a number that is greater than 1 and has only two factors which are 1 and itself.

In other words: prime number divisible only by 1 and itself.

Be careful that 1 is not prime.

The first few **prime** numbers are

2	3 5	7	11	13	17
19	23	29	31	37	41
43	47	53	59	61	67
71	73	79	83	89	97

### Input

Only one line containing a number N  $(2 \le N \le 10^3)$ .

### **Output**

Print all prime numbers between  ${\bf 1}$  and N (inclusive) separated by a space.

### Sample 1

## Primes Oct 09, 2022

Input	Output
10	2 3 5 7