

# Sieve of Sundaram

In this problem you must implement [Sieve of Sundaram](#), other solutions (algorithms) not acceptable.

Given one integer  $n$ , write prime numbers not greater than  $n$  in ascending order.

## Input

One integer number  $2 \leq n \leq 100000$ .

## Output

Print space separated prime numbers not greater than  $n$  in one line.

## Example

**Input:**

7

**Output:**

2 3 5 7

23/06/2019 - Time limit increased.