

## A. Design Tutorial: Learn from Math

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

One way to create a task is to learn from math. You can generate some random math statement or modify some theorems to get something new and build a new task from that.

For example, there is a statement called the "Goldbach's conjecture". It says: "each even number no less than four can be expressed as the sum of two primes". Let's modify it. How about a statement like that: "each integer no less than 12 can be expressed as the sum of two composite numbers." Not like the Goldbach's conjecture, I can prove this theorem.

You are given an integer  $n$  no less than 12, express it as a sum of two composite numbers.

### Input

The only line contains an integer  $n$  ( $12 \leq n \leq 10^6$ ).

### Output

Output two composite integers  $x$  and  $y$  ( $1 < x, y < n$ ) such that  $x + y = n$ . If there are multiple solutions, you can output any of them.

### Examples

input	Copy
12	
output	Copy
4 8	

  

input	Copy
15	
output	Copy
6 9	

  

input	Copy
23	
output	Copy
8 15	

  

input	Copy
1000000	
output	Copy
500000 500000	

### Note

In the first example,  $12 = 4 + 8$  and both 4, 8 are composite numbers. You can output "6 6" or "8 4" as well.

In the second example,  $15 = 6 + 9$ . Note that you can't output "1 14" because 1 is not a composite number.