Some prime numbers can be expressed as Sum of other consecutive prime numbers.  
For example  
  
5 = 2 + 3  
17 = 2 + 3 + 5 + 7  
41 = 2 + 3 + 5 + 7 + 11 + 13  
  
Your task is to find out how many prime numbers which satisfy this property are present in the range 3 to N subject to a constraint that summation should always start with number 2.  
  
Write code to find out number of prime numbers that satisfy the above mentioned property in a given range.

**Input Format:**  
  
First line contains a number N

**Output Format:**  
  
Print the total number of all such prime numbers which are less than or equal to N.

**Constraints:**

**1. 2**

**Sample Input and Output**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNo.** | **Input** | **Output** | **Comment** |
| 1 | 20 | 2 | (Below 20, there are 2 such numbers: 5 and 17). 5=2+3 17=2+3+5+7 |
| 2 | 15 | 1 |  |