

Consecutive Prime Sum

Some prime numbers can be expressed as a 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 the number of prime numbers that satisfy the above-mentioned property in a given range.

S.no	Input	Output	Comment
1	20	2	(Below 20, there are 2 such members: 5 and 17) $5 = 2+3$ $17 = 2+3+5+7$
2	15	1	

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: $2 < N \leq 12,000,000,000$