Question **1**

Correct

Marked out of 10.00

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 of input contains k - the number of inputs

The next k lines contains a number N.

Output Format:

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

Example:

Input:

k = 2

N = 20

N = 15

Output:

2 (there are 2 such numbers: 5 and 17)

1

For example:

Input	Result
2 20 15	2 1

Answer: (penalty regime: 0 %)

```
for i in range(int(input())):
    k=int(input())
    prime=2
    prime_list=[]
    for num in range(3,k+1):
        is_prime=True
        for i in range(2,int(num**0.5)+1):
            if num % i == 0:
                is_prime=False
                break
        if is_prime:
            prime=prime+num
            if prime>k:
                break
            prime_list.append(prime)
    for i in prime_list:
        is_prime=True
        for j in range(2,int(i**0.5)+1):
            if i % j ==0:
                prime_list.remove(i)
                break
    print(len(prime_list))
```

20

	Input	Expected	Got	
✔	2 20 15	2 1	2 1	✔

Passed all tests! ✔