**Task B3. SUM OF PRIMES**

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Write a program **ssum**, which calculate in how many different ways the given integer *x* can be presented as a sum of two prime numbers.

**Input**

On a single line of the standard input, the integer *x* is given.

**Output**

On a single line of the standard output, the program should write the calculated number. If *x* cannot be presented as a sum of two prime numbers, the program outputs 0.

**Restrictions**

4≤ *x* ≤10000

**Examples**

**Input Input Input**

4 10 11

**Output Output Output**

1 2 0

**Explanations of the examples:**

4 = 2 + 2

10 = 3 + 7 = 5 + 5

11 cannot be presented as a sum of two prime numbers.