

3 Output

On the first line, print the number of apartment areas that cannot exist.

4 Sample

Input

```
10
4
7
9
10
12
13
16
17
19
20
```

Output

```
2
```

Given ten areas, the areas 9 and 20 cannot exist. The other eight areas can be expressed as $2xy + x + y$ where x and y are positive integers. Therefore, the answer is 2.

5 Grading

Your code must use **standard IO**; it must read the input from stdin and print the output to stdout. If you attempt File IO, you may not get the points. You can submit your source code multiple times, and your score will be shown each time you submit it. There is a time limit of **1000ms**, and if your code exceeds this during the test, you will not get the points. There is no tight memory limit, but you will not be able to score if you use more than about 700 MiB of memory. The score is divided into three subtasks, and you must pass all test cases in each subtask to get the score. In other words, if you fail to pass even one of the test cases in the subtask, you will not get the score for the entire subtask.

6 Submission

Submit your Python code, the name of which should be “rent.py” on Gradescope. The due date for this assignment is **December 6, 2024, 11:59 P.M.**