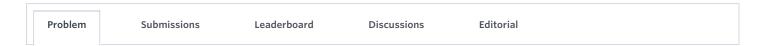


# **Priyanka and Toys**





Little Priyanka visited a kids' shop. There are N toys and their weight is represented by an array  $W=[w_1,w_2,\ldots,w_N]$ . Each toy costs 1 unit, and if she buys a toy with weight w', then she can get all other toys whose weight lies between [w',w'+4] (both inclusive) free of cost.

# **Input Format**

The first line contains an integer N i.e. number of toys. Next line will contain N integers,  $w_1, w_2, \ldots, w_N$ , representing the weight array.

# **Output Format**

Minimum units with which Priyanka could buy all of toys.

#### **Constraints**

$$1 \le N \le 10^5$$
  
 $0 \le w_i \le 10^4$ , where  $i \in [1, N]$ 

#### Sample Input

5 1 2 3 17 10

# Sample Output

3

# **Explanation**

She buys  $1^{st}$  toy with weight 1 for 1 unit and gets  $2^{nd}$  and  $3^{rd}$  toy for free since their weight lies between [1,5]. And she has to buy last two toys separately.

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> Submissions: 4185 Max Score: 30

**Difficulty:** Easy

More

Current Buffer (saved locally, editable) & 40

Java 8



```
1 import java.io.*;
   import java.util.*;
 3
 4 ▼ public class Solution {
 5
 6 ₹
        public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
 8
        }
 9
    }
                                                                                                                   Line: 1 Col: 1
1 Upload Code as File
                        ☐ Test against custom input
                                                                                                      Run Code
                                                                                                                   Submit Code
```

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