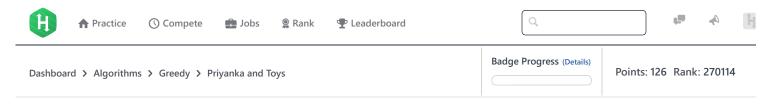
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# Priyanka and Toys





Little Priyanka visited a kids' shop. There are N toys and their weight is represented by an array  $W = [w_1, w_2, \dots, w_N]$ . 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  $\mathbf{1}^{st}$  toy with weight  $\mathbf{1}$  for  $\mathbf{1}$  unit and gets  $\mathbf{2}^{nd}$  and  $\mathbf{3}^{rd}$  toy for free since their weight lies between [1,5]. And she has to buy last two toys separately.

```
f y in
Submissions:<u>15574</u>
Max Score:30
Difficulty: Easy
Rate This Challenge:
☆ ☆ ☆ ☆ ☆
```

More

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```
import java.math.*;
import java.util.regex.*;

public class Solution {

public static void main(String[] args) {

/* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */

}

Line: 1 Col: 1

Line: 1 Code

Submit Code
```

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