



Priyanka and Toys

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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, \dots, w_N , representing the weight array.

Output Format

Minimum units with which Priyanka could buy all of toys.

Constraints

$$1 \leq N \leq 10^5$$

$$0 \leq w_i \leq 10^4, \text{ where } i \in [1, N]$$

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.

[f](#) [t](#) [in](#)Submissions: [15574](#)

Max Score: 30

Difficulty: Easy

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Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
```

```
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

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