

[All Domains](#) > [Algorithms](#) > [Greedy](#) > [Priyanka and Toys](#)

Badge Progress



Points: 2300.44 Rank: 1301

Priyanka and Toys

by [amititkgp](#)

Problem

Submissions

Leaderboard

Discussions

Editorial

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

Submissions: 4185

Max Score: 30

Difficulty: Easy

[More](#)

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
        Solution. */
8     }
9 }
```

Line: 1 Col: 1

[Upload Code as File](#)

Test against custom input

Run Code

Submit Code

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Privacy Policy](#) | [Request a Feature](#)