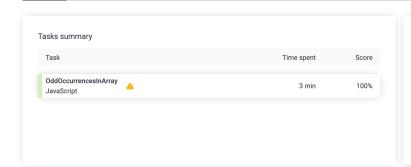
# Codility\_

# CodeCheck Report: trainingX3GQRJ-ZJZ

Timeline

Test Name:

Check out Codility training tasks





### **Tasks Details**



# 1. OddOccurrencesInArray

Find value that occurs in odd number of elements.



#### Task description

A non-empty array A consisting of N integers is given. The array contains an odd number of elements, and each element of the array can be paired with another element that has the same value, except for one element that is left unpaired.

For example, in array A such that:

```
A[0] = 9 A[1] = 3 A[2] = 9

A[3] = 3 A[4] = 9 A[5] = 7

A[6] = 9
```

- the elements at indexes 0 and 2 have value 9,
- the elements at indexes 1 and 3 have value 3,
- the elements at indexes 4 and 6 have value 9,
- the element at index 5 has value 7 and is unpaired.

Write a function:

function solution(A);

that, given an array A consisting of N integers fulfilling the above conditions, returns the value of the unpaired element.

For example, given array A such that:

```
A[0] = 9 A[1] = 3 A[2] = 9

A[3] = 3 A[4] = 9 A[5] = 7

A[6] = 9
```

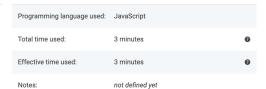
the function should return 7, as explained in the example above.

Write an efficient algorithm for the following assumptions:

- N is an odd integer within the range [1..1,000,000];
- each element of array A is an integer within the range [1..1,000,000,000];
- all but one of the values in A occur an even number of times.

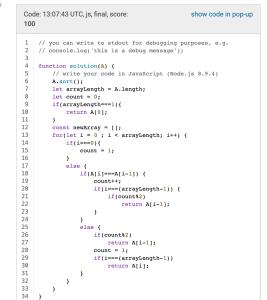
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#### Solution



Task timeline





#### Analysis summary

The solution obtained perfect score

## Analysis

Detected time complexity: O(N) or O(N\*log(N))

expand all

Example tests

example test	
expand all Correctness tests	
► simple1   ✓ OK simple test n=5	
► simple2	
► extreme_single_item   ✓ OK  [42]	
► small1	
► small2	
expand all Performance tests	
► medium1	
► medium2	
▶ big1	
▶ big2	