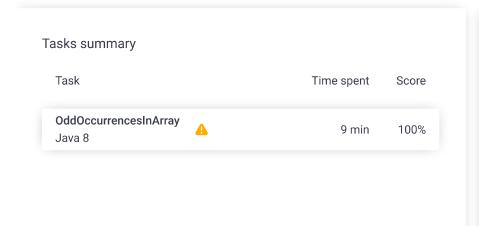
# Codility\_

# CodeCheck Report: trainingB5EN23-NJE

Test Name:

Summary Timeline 🖨 Al Assistant Transcript

#### Check out Codility training tasks





## Tasks Details

1.

OddOccurrencesInArray
Find value that occurs in odd
number of elements.

Task Score
Correctness
Performance

100%
100%

#### 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:

class Solution { public int solution(int[] A); }

## Solution

Programming language used: Java 8

Total time used: 9 minutes

Effective time used: 9 minutes

Notes: not defined yet

Task timeline

09:56:30

10:05:00

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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```
Code: 10:04:59 UTC, java,
                                    show code in pop-up
final, score: 100
     // you can also use imports, for example:
     // import java.util.*;
 2
 3
 4
     // you can write to stdout for debugging purposes,
 5
     // System.out.println("this is a debug message");
7
     class Solution {
         public int solution(int[] A) {
8
9
             int result = 0;
10
             for (int i : A){
11
                 result ^= i;
             }
12
13
             return result;
14
         }
15
```

## Analysis summary

The solution obtained perfect score.

#### Analysis

# 

expa	nd all	Example	tests
<b>&gt;</b>	example1 example test		√ OK
ехра	nd all	Correctnes	ss tests
•	simple1 simple test n=5		√ OK
•	simple2 simple test n=11		√ OK
•	extreme_singl [42]	le_item	✓ OK
<b>•</b>	small1 small random tes	t n=201	√ OK
•	small2 small random tes	t n=601	√ OK
expa	nd all	Performan	ce tests
•	medium1	test n=2,001	√ OK
<b>&gt;</b>	medium2	test n=100,003	√ OK
•	big1 big random test n	n=999,999, multip	<b>✓ OK</b> le

big2 ✓ **OK** 

big random test n=999,999