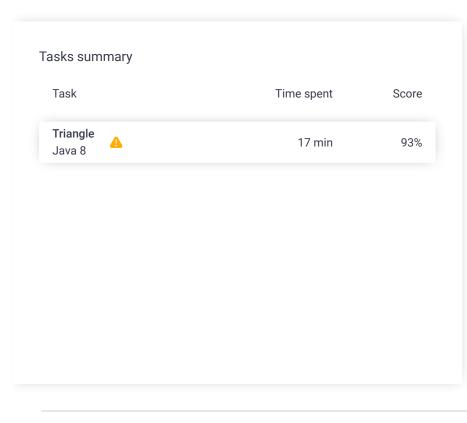
Codility_

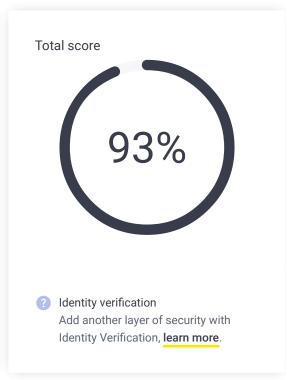
Candidate Report: trainingB686VK-SJF

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

1. Triangle

Easy

Determine whether a triangle can be built from a given set of edges.

Task Score

93%

Correctness

Performance

90%

100%

Task description

An array A consisting of N integers is given. A triplet (P, Q, R) is triangular if $0 \le P < Q < R < N$ and:

- A[P] + A[Q] > A[R],
- A[Q] + A[R] > A[P],
- A[R] + A[P] > A[Q].

For example, consider array A such that:

$$A[0] = 10$$
 $A[1] = 2$ $A[2] = 5$
 $A[3] = 1$ $A[4] = 8$ $A[5] = 20$

Triplet (0, 2, 4) is triangular.

Write a function:

that, given an array A consisting of N integers, returns 1 if there exists a triangular triplet for this array and returns 0 otherwise.

For example, given array A such that:

$$A[0] = 10$$
 $A[1] = 2$ $A[2] = 5$
 $A[3] = 1$ $A[4] = 8$ $A[5] = 20$

the function should return 1, as explained above. Given array A such that:

$$A[0] = 10$$
 $A[1] = 50$ $A[2] = 5$ $A[3] = 1$

the function should return 0.

Write an efficient algorithm for the following assumptions:

Solution

11

Programming language used: Java 8

Total time used: 17 minutes

Effective time used: 17 minutes

Notes: not defined yet

Task timeline



Code: 07:05:03 UTC, java, show code in pop-up final, score: 93

```
// you can also use imports, for example:
import java.util.*;

// you can write to stdout for debugging purposes,
// System.out.println("this is a debug message");

class Solution {
 public int solution(int[] A) {
    // write your code in Java SE 8
    Arrays.sort(A);
```

for(int i=2;i<A.length;i++){</pre>

Test results - Codility

- N is an integer within the range [0..100,000];
- each element of array A is an integer within the range [-2,147,483,648..2,147,483,647].

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Analysis summary

The following issues have been detected: wrong answers.

Analysis

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

		`	1 109(11))
expand all Example tests			
•	example example, positive answer, length=6	✓	OK
•	example1 example, answer is zero, length=4	✓	OK
expand all Correctness tests			
•	extreme_empty empty sequence	✓	OK
•	extreme_single 1-element sequence	✓	ОК
•	extreme_two_elems 2-element sequence	✓	ОК
•	extreme_negative1 three equal negative numbers	✓	OK
•	extreme_arith_overflow1 overflow test, 3 MAXINTs	X	WRONG ANSWER got 0 expected 1
•	extreme_arith_overflow2 overflow test, 10 and 2 MININTs	✓	ОК
•	extreme_arith_overflow3 overflow test, 0 and 2 MAXINTs	✓	OK
•	medium1 chaotic sequence of values from [0100K], length=30	√	OK
•	medium2 chaotic sequence of values from [01K], length=50	✓	OK
•	medium3 chaotic sequence of values from [01K], length=100		ОК
expand all Performance tests			
•	large1 chaotic sequence with values from [0100K], length=10K	√	OK
•	large2 1 followed by an ascending sequence of $\sim 50 \text{K}$ elements from [0100K], length= $\sim 50 \text{K}$	✓	ок
•	large_random chaotic sequence of values from [01M], length=100K	✓	OK
•	large_negative chaotic sequence of negative values from [-1M1], length=100K	✓	OK
•	large_negative2 chaotic sequence of negative values from [-101], length=100K	✓	OK
•	large_negative3 sequence of -1 value, length=100K	✓	ОК

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