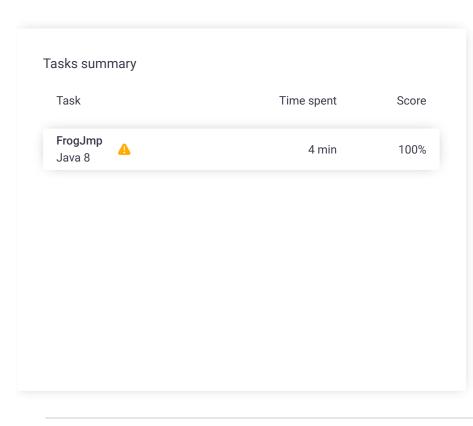
Codility_

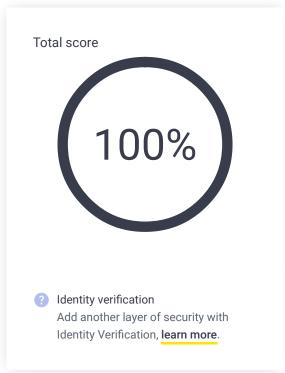
Candidate Report: trainingKWC9YM-U8S

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

1. FrogJmp Task Score Correctness Performance

Count minimal number of jumps from position X to Y. 100% 100%

Task description

A small frog wants to get to the other side of the road. The frog is currently located at position X and wants to get to a position greater than or equal to Y. The small frog always jumps a fixed distance, D.

Count the minimal number of jumps that the small frog must perform to reach its target.

Write a function:

class Solution { public int solution(int X, int Y,
int D); }

that, given three integers X, Y and D, returns the minimal number of jumps from position X to a position equal to or greater than Y.

For example, given:

X = 10

Y = 85

D = 30

the function should return 3, because the frog will be positioned as follows:

- after the first jump, at position 10 + 30 = 40
- after the second jump, at position 10 + 30 + 30 = 70
- after the third jump, at position 10 + 30 + 30 + 30 = 100

Write an efficient algorithm for the following assumptions:

- X, Y and D are integers within the range [1..1,000,000,000];
- X ≤ Y.

Solution

Task timeline

Code: 11:06:10 UTC, java,

Programming language used: Java 8

Total time used: 4 minutes

Effective time used: 4 minutes

Notes: not defined yet



show code in pop-up

11:02:24 11:06:10

final, score: 100 // 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 { 8 public int solution(int X, int Y, int D) { 9 int d=Y-X; 10 $if(d\%D==0){$ 11 return d/D; 12 }

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```
13 else{
14 return (d/D)+1;
15 }
16 // write your code in Java SE 8
17 }
18 }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: O(1)

	F	
expand all	Example tests	
example	✓ OK	
example test		
expand all	Correctness tests	
► simple1	✓ OK	
simple test		
► simple2	✓ OK	
extreme_position	√ OK	
no jump needed		
► small_extreme_ju	ımp ✓ OK	
orrian_cxtrcrric_jc	ilih 10K	
one big jump	inp VOK	
one big jump	Performance tests	
one big jump		
one big jump expand all	Performance tests	
one big jump expand all ► many_jump1	Performance tests	
one big jump expand all ■ many_jump1 many jumps, D = 2	Performance tests ✓ OK	
one big jump expand all ▶ many_jump1 many jumps, D = 2 ▶ many_jump2	Performance tests ✓ OK	
one big jump expand all many_jump1 many jumps, D = 2 many_jump2 many jumps, D = 99	Performance tests ✓ OK ✓ OK ✓ OK	
one big jump expand all ▶ many_jump1 many jumps, D = 2 ▶ many_jump2 many jumps, D = 99 ▶ many_jump3	Performance tests ✓ OK ✓ OK ✓ OK	
one big jump expand all many_jump1 many jumps, D = 2 many_jump2 many jumps, D = 99 many_jump3 many jumps, D = 1283	Performance tests VOK VOK VOK OK VOK	
one big jump expand all ▶ many_jump1 many jumps, D = 2 ▶ many_jump2 many jumps, D = 99 ▶ many_jump3 many jumps, D = 1283 ▶ big_extreme_jum	Performance tests VOK VOK VOK OK VOK	

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