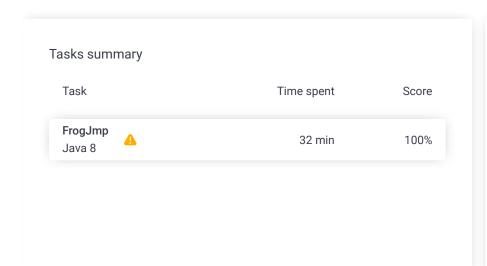
Codility_

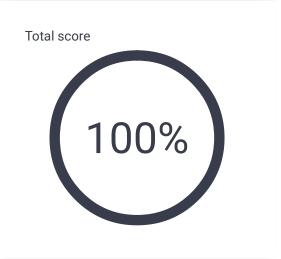
CodeCheck Report: training9T5Z9X-C2Q

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

1. FrogJmp
Count minimal number of jumps from position X to Y.

Task Score

Correctness

100%

Performance

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:

Solution

Programming language used: Java 8

Total time used: 32 minutes

Effective time used: 32 minutes

Notes: not defined yet

Task timeline

06:30:48 07:01:50

Code: 07:01:50 UTC, java, final, score: **100**

show code in pop-up

https://app.codility.com/demo/results/training9T5Z9X-C2Q/

- 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.

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```
// you can also use imports, for example:
2
     import java.util.*;
3
     // you can write to stdout for debugging purposes,
     // System.out.println("this is a debug message");
4
5
     class Solution {
6
         public int solution(int X, int Y, int D) {
7
             // write your code in Java SE 8
8
             int delta = Y-X;
9
             if(delta==0)
10
                 return 0;
             int no_of_jumps =(delta%D==0)? delta/D : (d
11
12
             return no_of_jumps;
13
         }
14
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: O(1)

expand all	Exampl	e tests
example example test		✓ OK
expand all	Correctne	ess tests
simple1		✓ OK
▶ simple2		✓ OK
extreme_posit no jump needed	tion	✓ OK
► small_extreme one big jump	e_jump	✓ OK
expand all	Performa	nce tests
many_jump1 many jumps, D =	2	✓ OK
many_jump2 many jumps, D =	99	✓ OK
many_jump3 many jumps, D =	1283	✓ OK
	umn	✓ OK
big_extreme_j maximal number		