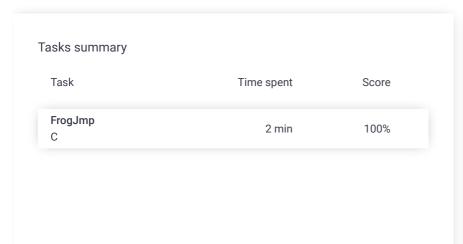
Codility_

Candidate Report: training4YXPNJ-WBC

Check out Codility training tasks

Test Name:

Summary Timeline





Tasks Details

1. FrogJmp Task Score Correctness Performance
Count minimal number of jumps from position X to Y. 100% 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:

```
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];

Solution

Programming language used: C

Total time used: 2 minutes

Effective time used: 2 minutes

Notes: not defined yet

Task timeline

06:37:35 06:38:46

Code: 06:38:45 UTC, c, final, show code in pop-up score: 100

```
// you can write to stdout for debugging purposes, e.g.
// printf("this is a debug message\n");

int solution(int X, int Y, int D) {
    // write your code in C99 (gcc 6.2.0)
    return (Y-X)%D? (Y-X)/D+1 : (Y-X)/D;
```

X ≤ Y.

Copyright 2009–2020 by Codility Limited. All Rights Reserved. Unauthorized copying, publication or disclosure prohibited.

Analysis summary

The solution obtained perfect score.

Analysis ?

Detected time complexity: O(1)

expand all		Example tests	
•	example example test	√	OK
expand all		Correctness tests	
•	simple1 simple test	√	OK
•	simple2	✓	OK
•	extreme_position no jump needed	√	OK
•	small_extreme_jum one big jump	ip 🗸	OK
expar	nd all	Performance tests	
•	many_jump1 many jumps, D = 2	√	OK
•	many_jump2 many jumps, D = 99	√	OK
•	many_jump3 many jumps, D = 1283	•	OK
•	big_extreme_jump maximal number of jur	•	OK
•	small_jumps many small jumps	✓	OK

The PDF version of this report that may be downloaded on top of this site may contain sensitive data including personal information. For security purposes, we recommend you remove it from your system once reviewed.