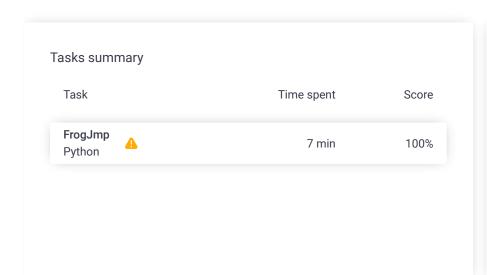
Codility_

Candidate Report: training DNGWM3-XRG

Check out Codility training tasks

Test Name:

Summary Timeline





Tasks Details

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

Task Score

100%

Correctness

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:

def solution(X, Y, 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: Python

Total time used: 7 minutes

Effective time used: 7 minutes

Notes: not defined yet

Task timeline

09:49:14 09:55:52

Code: 09:55:52 UTC, py, final,

C, py, final, show code in pop-up

score: 100

- 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 write to stdout for debugging purposes, e.g.
# print("this is a debug message")

def solution(X, Y, D):
# write your code in Python 3.6
dis = Y - X
if dis%D==0:
return dis//D
return dis//D + 1
```

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 simple test		✓ OK	
▶ simple2		✓ OK	
extreme_position no jump needed		√ OK	
small_extremely small_extre	me_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	
big_extreme_jump maximal number of jumps		✓ OK	
	small_jumps many small jumps		

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