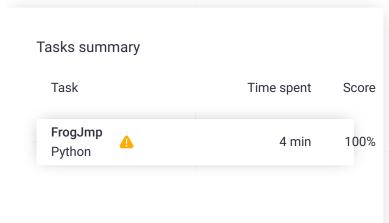
Codility_

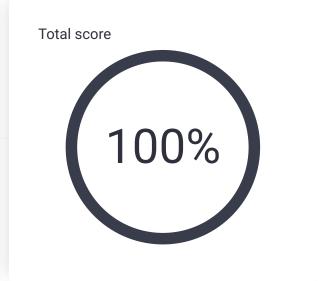
CodeCheck Report: trainingQEQ7UH-JT8

Test Name:

Check out Codility training tasks

Summary Timeline





Tasks Details

1. FrogJmp
Count

minimal number of jumps from position X to Y.

Task Score

Correctness

100%

Performance

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)

Solution

Programming language used: Python

100%

Total time used: 4 minutes

Effective time used: 4 minutes

Notes: not defined yet

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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

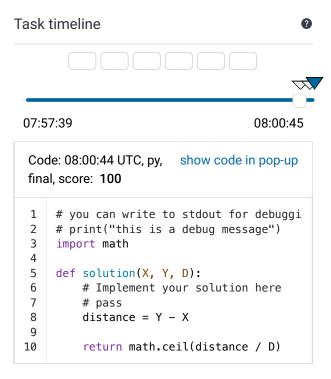
the function should return 3, because the frog will be positioned as follows:

- 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.

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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	✓ OK
▶ simple2	✓ OK
extreme_pos no jump needed	tion VOK
small_extrem one big jump	e_jump 🗸 OK
expand all F	erformance tests
many_jump1 many jumps, D =	∨ OK
many_jump2	∨ OK 99
many_jump3	✓ OK 1283
big_extreme_	iump 🗸 OK

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ma	ximal number of jumps		
▶	small_jumps	✓ OK	
	many small jumps		

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