



Training ticket

Session

ID: trainingUSGUHR-BZA **Time limit:** 120 min.

Status: closed

Created on: 2016-09-12 20:49 UTC Started on: 2016-09-12 20:49 UTC Finished on: 2016-09-12 20:58 UTC

Tasks in test

FrogJmp
Submitted in: Java

Correctness

100%

Performance 100%

100%

Task score

Test score 2

100%

100 out of 100 points

score: 100 of 100

1. FrogJmp

EASY

Count minimal number of jumps from position X to Y.

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

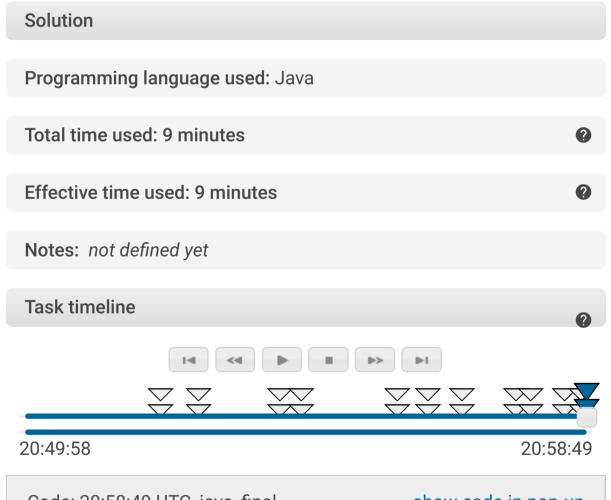
D = 30

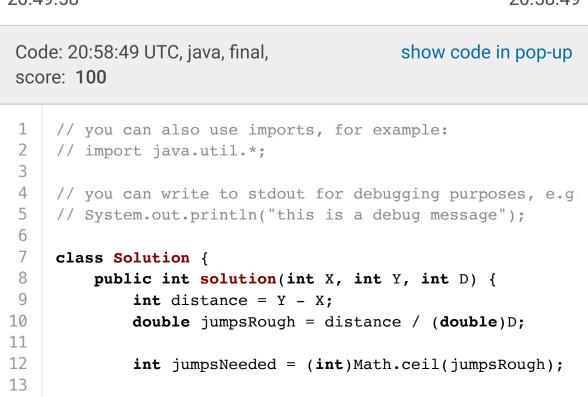
the function should return 3, because the frog will be positioned as follows:

- 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

Assume that:

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





Complexity:

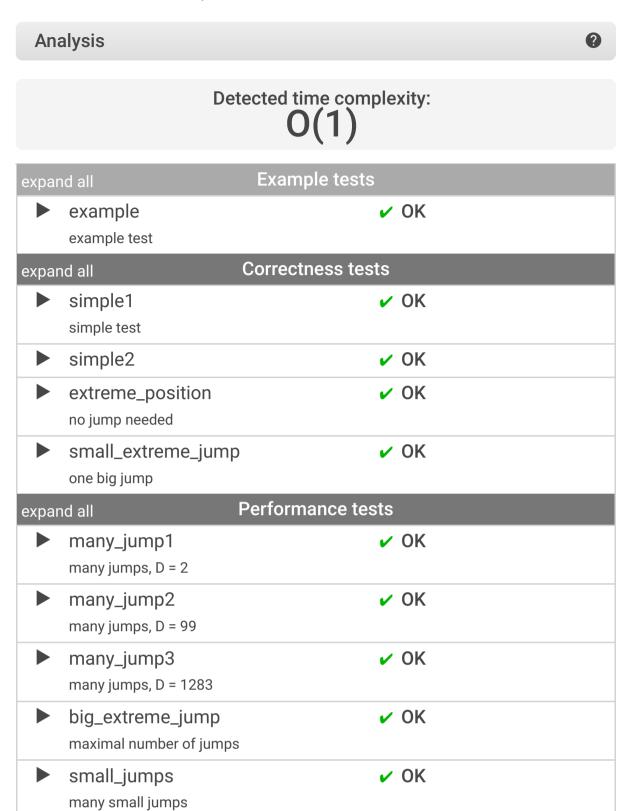
- expected worst-case time complexity is O(1);
- expected worst-case space complexity is O(1).

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14		return jumpsNeeded;	
15	}		
16	}		

Analysis summary

The solution obtained perfect score.



Training center