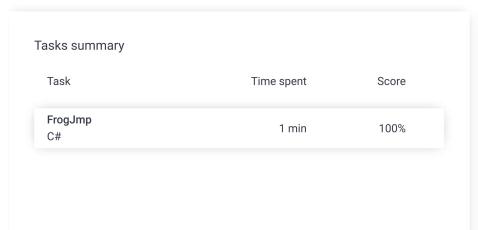
Codility_

Candidate Report: trainingYN9HFF-H4V

Check out Codility training tasks

Test Name:

Summary Timeline Feedback





Tasks Details

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

Task Score

Correctness

Performance

100%

cironnance

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:

- after the first jump, at position 10 + 30 = 40
- after the second jump, at position 10 + 30 + 30 = 70

Solution

Programming language used: C#

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline



Code: 18:38:20 UTC, cs, final,

show code in pop-up

score: 100

• 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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using System; using System.Linq; // you can also use other imports, for example: 3 4 // using System.Collections.Generic; 6 // you can write to stdout for debugging purposes, e.g. // Console.WriteLine("this is a debug message"); 8 9 class Solution { public int solution(int X, int Y, int D) 10 11 12 if (X == Y)13 return 0; 14 var distance =(double)(Y - X); 15 double d = Math.Ceiling(distance / (double)D); return System.Convert.ToInt32(d); 16 17 } 18 }

Analysis summary

The solution obtained perfect score.

Analysis 👩

Detected time complexity: O(1)

| expar | nd all | Example tests |
|-------|--|-------------------|
| • | example example test | √ OK |
| expar | nd all | Correctness tests |
| • | simple1 simple test | √ OK |
| • | simple2 | ✓ OK |
| • | extreme_position no jump needed | ✓ OK |
| • | small_extreme_jum one big jump | p √ 0K |
| 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 jump | ✓ OK |
| • | small_jumps many small jumps | √ OK |

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