Codility_

CodeCheck Report: trainingBZ6KMG-8SS

Test Name:

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Summary Timeline AI Assistant Transcript

Tasks summary

Task	Time spent	Score
FrogJmp ⚠ Java 8	3 min	100%

Total score

100%

Tasks Details

		Task Score	Correctness	Performance
Easy	1. FrogJmp 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:

```
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.

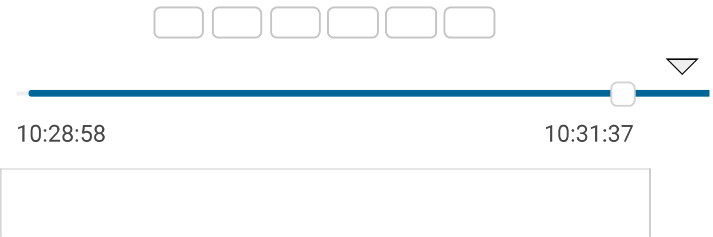
For example, given:

```
X = 10
Y = 85
D = 30
```

Solution

Programming language used:	Java 8
Total time used:	3 minutes ?
Effective time used:	3 minutes ?
Notes:	*not defined yet*

Task timeline ?



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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Code: 10:31:36 UTC, java, final, score: **100**

show code in pop-up

```java
// you can also use imports, for example:
// import java.util.*;

// you can write to stdout for debugging purposes,
// System.out.println("this is a debug message");

class Solution {
    public int solution(int X, int Y, int D) {
        int distocov= Y-X;
        int minjump = distocov/D;
        if(distocov%D !=0 )
            minjump++;
        return minjump;
    }
}
```

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_jump one big jump	✓ OK

expand 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 jumps	✓ OK
▶ small_jumps many small jumps	✓ OK