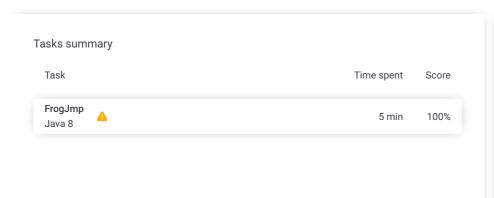
# Codility\_

# CodeCheck Report: training9VS684-D98

Test Name:

Summary Timeline

Check out Codility training tasks





#### **Tasks Details**

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

Correctness Performance
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:

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 = 85D = 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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#### Solution

Programming language used: Java 8

Total time used: 5 minutes

Effective time used: 5 minutes

Notes: not defined yet

Task timeline

# 21:39:25 21:43:40

#### Analysis summary

The solution obtained perfect score.

#### Analysis

0(1)

## Detected time complexity:

| collap                         | se all                  | Example tests |
|--------------------------------|-------------------------|---------------|
| •                              | example                 | <b>∨</b> OK   |
|                                | example test            |               |
| 1.                             | 0.004 s <b>OK</b>       |               |
| collapse all Correctness tests |                         |               |
| •                              |                         | <b>∠</b> OK   |
|                                | simple test             |               |
| 1.                             | 0.004 s <b>OK</b>       |               |
| 2.                             | 0.004 s <b>OK</b>       |               |
| ▼                              | simple2                 | <b>∨</b> OK   |
| 1.                             | 0.008 s <b>OK</b>       |               |
| 2.                             | 0.004 s <b>OK</b>       |               |
| •                              | extreme_position        | <b>∠</b> OK   |
|                                | no jump needed          |               |
| 1.                             | 0.004 s OK              |               |
| 2.                             | 0.004 s <b>OK</b>       |               |
| •                              | small_extreme_jump      | <b>∨</b> OK   |
|                                | one big jump            |               |
| 1.                             | 0.004 s <b>OK</b>       |               |
| collapse all Performance tests |                         |               |
| •                              | many_jump1              | <b>∨</b> OK   |
|                                | many jumps, D = 2       |               |
| 1.                             | 0.004 s <b>OK</b>       |               |
| ▼                              | many_jump2              | <b>∨</b> OK   |
| ļ                              | many jumps, D = 99      |               |
| 1.                             | 0.008 s <b>OK</b>       |               |
| •                              | many_jump3              | <b>∨</b> OK   |
|                                | many jumps, D = 1283    |               |
| 1.                             | 0.004 s <b>OK</b>       |               |
| ▼                              | big_extreme_jump        | <b>∨</b> OK   |
|                                | maximal number of jumps | ;             |
| 1.                             | 0.004 s <b>OK</b>       |               |
| •                              | small_jumps             | <b>∠</b> OK   |
|                                | many small jumps        |               |
| 1.                             | 0.004 s <b>OK</b>       |               |