Java → Basic syntax and simple programs → Operations on primitive types → Integer types and operations

Java → Snail

Hard 10 minutes

2008 users solved this problem. Latest completion was **about 5 hours ago**.

Code Challenge — Write a program

Typical task for a job interview.

Snail creeps up the vertical pole of height H feets. Per day it goes A feets up, and per night it goes B feets down. In which day the snail will reach the top of the pole?

Input data format

On the input the program receives non-negative integers H, A, B, where H > B and A > B. Every integer does not exceed 100.

Sample Input 1:

```
10
3
2
```

Sample Output 1:

```
8
```

Sample Input 2:

```
20
7
3
```

Sample Output 2:

```
5
```

Code Editor IDE

Solve in IDE

✓ **IDE is responding** IntelliJ IDEA 2019.3

✓ **Plugin is responding** 3.2-2019.3-3686

✓ **Correct**

Thanks for your feedback!

Write here how we could improve this problem

Continue

Reference solution β

These solutions are generated semi-automatically and may sometimes look too complicated or even bizarre. Please use it as a source of inspiration, not as a best possible solution for this problem. We are still improving the generation algorithm.

```
import java.util.Scanner;

class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        int height = scanner.nextInt();
        int day = scanner.nextInt();
        int night = scanner.nextInt();

        int result = (height - night - 1) / (day - night) + 1;

        System.out.println(result);
    }
}
```

Time limit: 1 seconds Memory limit: 256 MB

Comments (75) Hints (2) Useful links (1) Solutions (10)

SK Share something, Sergey Kubatko

Post Please do not post solutions here

RG **Rakesh Gupta** 3 days ago Report

These links are quite useful!
https://stackoverflow.com/questions/7139382/java-rounding-up-to-an-int-using-math-ceil/21830188
https://stackoverflow.com/questions/8753959/round-a-floating-point-number-to-the-next-integer-value-in-java

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