# A test of "programming for beginners"- 23 July 2017

## Task 2. Choreography

A group of dancers prepare for the final race. They have to learn new choreography. The dance consists of **N-the number of steps**, which are **distributed among the dancers**. All the choreography must learn about **a certain number of days**. **All** dancers can learn **no more than 13% of the total steps per day**. To write a program that calculates **whether the dancers will be able to learn new dance** and **how many percent of the steps should teach each and every one of them**.

**In calculating the percentage steps per day, the figure should be rounded to the nearest whole number – up.**

# Login

From the console read **3 rows**:

**1.** **Number of steps: an integer in the range [1 ... 100 000];**

**2.** **Number of dancers – an integer in the range [1 ... 50];**

**3.** **Number of days for learning – an integer in the range [1 ... 31];**

# Exit

The printing on the console depends on the result:

* If the total percentage steps**are less or equal to 1** **3 %**otpečatvame:
  + **"** **Yes, they will succeed in that goal! {percentage steps that you need to learn every single dancer of the day }%."**
* If the total percentage steps**are more than 13%**print:
  + **"** **No, They will not succeed in that goal!****Required {percentage steps that you need to learn every single dancer of the day}% steps to be learned per day ."**

Both the response must be formatted **to the second** decimal place.

|  |  |  |
| --- | --- | --- |
| **login** | **exit** | **comments** |
| 10464  20  20 | Yes, they will succeed in that goal! 0.25%. | Steps per day: (10464 / 20) / 10464 = 5%  Percentage steps for each dancer: 5/20 = 0.25% |
| 55555  30  7 | No, They will not succeed in that goal! Required 0.50% steps to be learned per day. | Steps per day: (55555 / 7) / 55555 = 14.28..% = 15%  Percentage for each dancer steps: 15/30 = 0.50% |