

Problem 1 - The Biscuit Factory



Create a program that will help Anna **calculate** how many biscuits her factory can make in a month (**30 days**) and the **percentage** of production compared to another **factory's** production.

First, you will **receive** the biscuits produced **per day (per worker)**. After that, you will **receive** the count of workers in your factory. Last, you will receive the **number of biscuits** that the **competing factory produces for 30 days**.

You need to **calculate** the production of your factory within **30 days**. Then you should **calculate how much more or less** biscuits you produce **compared** to the other factory (**in percentage**). There will be no case where the factories will produce **the same number** of biscuits.

Every **third day** the workers produce only **75%** of the usual production. Keep in mind that there can be only a **whole biscuit** after making calculations **for each day** – format them to the **lower number**.

In the end, print the number of **biscuits produced** for **30 days** in the following format:

"You have produced {countBiscuits} biscuits for the past month."

Then print the percentage of the difference, **formatted** to the **2nd decimal place**, in the following format:

If your production is **bigger** than the other factory:

"You produce {percentage} percent more biscuits."

If not:

"You produce {percentage} percent less biscuits."

Input

- On the **first line**, you will receive the **number of biscuits** a worker produces per day – an integer number in the range [1...200].
- On the **second line**, you will receive the **count of the workers** in your factory – an integer number in the range [1...1000].
- On the **third line**, you will receive the **number of biscuits** that the competing factory produces for **30 days** – an integer number in the range [1...2⁶⁴].

NOTE: The input will always be in the correct format.

Output

- Print the **number of biscuits** produced for 30 days in the format described above.
- Print the **percentage of the difference formatted to the 2nd decimal place** in the format described above.

Constraints

- The percentage **can be over 100%**.
- There will be no case where the factories will produce **the same number** of biscuits.

Examples

Input	Output
78 8 16000	You have produced 17160 biscuits for the past month. You produce 7.25 percent more biscuits.
Comments	
-78 biscuits a day -8 employees -17160 biscuit production of Anna's factory (keep in mind every third day the workers produce only 75% of the usual production) -17160 – 16000 = 1160 - the difference between your and the other factory production -1160/16000 * 100 = 7.25% more biscuits	
65 12 26000	You have produced 21450 biscuits for the past month. You produce 17.50 percent less biscuits.
Comments	
-65 biscuits a day -12 employees -21450 biscuit production of Anna's factory -26000 – 21450 = 4550 - the difference between your and the other factory production -4550/26000 * 100 = 17.50% less biscuits	
163 16 67020	You have produced 71720 biscuits for the past month. You produce 7.01 percent more biscuits.

JS Examples

The input will be provided as an array with 3 string parameters.

Input	Output
(["78", "8", "16000"])	You have produced 17160 biscuits for the past month. You produce 7.25 percent more biscuits.
Comments	

<p>-78 biscuits a day</p> <p>-8 employees</p> <p>-17160 biscuit production of Anna's factory (keep in mind every third day the workers produce only 75% of the usual production)</p> <p>-17160 – 16000 = 1160 - the difference between your and the other factory production</p> <p>-1160/16000 * 100 = 7.25% more biscuits</p>	
(["65", "12", "26000"])	<p>You have produced 21450 biscuits for the past month.</p> <p>You produce 17.50 percent less biscuits.</p>
Comments	
<p>-65 biscuits a day</p> <p>-12 employees</p> <p>-21450 biscuit production of Anna's factory</p> <p>-26000 – 21450 = 4550 - the difference between your and the other factory production</p> <p>-4550/26000 * 100 = 17.50% less biscuits</p>	
(["163", "16", "67020"])	<p>You have produced 71720 biscuits for the past month.</p> <p>You produce 7.01 percent more biscuits.</p>