Problem 1. Charity Marathon

Every year a charity marathon takes place in your town in which all major companies are obliged to **make donations depending on the total kilometers ran by runners in a number of days**. And this year you have been chosen to create the software for it.

The **marathon can last for variable number days** and a **variable number of runners can participate** in it on a **track that can have a variable length**. However, the **track that can take only a limited number of runners per day**. If the runners that want to take part are more than the capacity, then the number of runners that will run will be **equal to the maximum capacity of the track**.

The **amount of money raised per kilometer is voted** in advance by all companies and the final money per kilometer is **calculated by an average of all votes**.

The goal is simple, create a program that calculates the total money raised through the marathon.

Input

- On the first line of input you will get the **length of the marathon in days**
- On the second line of input you will get **the number of runners that will participate**
- On the third line you will get the **average number of laps every runner** makes
- On the fourth line you will get the **length of the track**
- On the fifth line you will get the **capacity of the track**
- On the sixth line you will get **the amount of money donated per kilometer**

Output

- Print the money raised, **rounded by the second digit after the decimal point** from the charity marathon in the format: "**Money raised: {money}**"

Constraints

- Marathon day count will be an integer in the range [0 … 365]
- Runner count will be an integer in the range [0 … 2,147,483,647]
- Average number of laps will be an integer in the range [0 … 100]
- Lap length will be an integer in the range [0 … 2,147,483,647]
- Track capacity will be an integer in the range [0 … 1000]
- Money per kilometer will all be a floating point number

Examples

Input	Output	Comments
2 50 2 400 30 3	Money raised: 120.00	The marathon runs for 2 days, with 50 runners that will make an average of 2 laps on a track that is long 400 meters. The capacity of the track is 30 runners per day. So a total of 30 * 2 = 60 maximum runners. But only 50 runners are listed, so 50 will run. Total meters = 50 runners * 2 laps * 400 m = 40,000 m Total kilometers = 40,000 m / 1,000 = 40 km Money raised by kilometer = 3 Money raised for the marathon = 40 * 3 = 120
1 50 10 400 1 2.5	Money raised: 10.00	The listed runners are 50, but the maximum capacity of the track is 1 runner per day and the marathon will last for 1 day. So 1 runner will run in total.