

Padawan Equipment

Yoda is starting his newly created Jedi academy. So, he asked master Ivan Cho to **buy** the **needed equipment**. The number of **items** depends on **how many students will sign up**. The equipment for the Padawan contains **lightsabers, belts and robes**.

You will be given **the amount of money Ivan Cho has**, the **number of students** and the **prices of each item**. You have to help Ivan Cho **calculate** if the **money** he has is **enough to buy all of the equipment**, or how much more money he needs. Because the lightsabres sometimes brake, Ivan Cho should **buy 10% more, rounded up** to the next integer. Also, every **sixth belt is free**.

Input / Constraints

The input data should be read from the console. It will consist of **exactly 5 lines**:

- The **amount of money** Ivan Cho has – **floating-point number** in range **[0.00...1,000.00]**
- The **count of students** – **integer** in range **[0...100]**
- The **price of lightsabers** for a **single sabre** – **floating-point number** in range **[0.00...100.00]**
- The **price of robes** for a **single robe** – **floating-point number** in range **[0.00...100.00]**
- The **price of belts** for a **single belt** – **floating-point number** in range **[0.00...100.00]**

The **input data will always be valid**. There is no need to check it explicitly.

Output

The output should be printed on the console.

- If the **calculated price of the equipment** is less or equal to the money Ivan Cho has:
 - "The money is enough - it would cost {the cost of the equipment}lv."
- If the **calculated price of the equipment** is more than the money Ivan Cho has:
 - "Ivan Cho will need {neededMoney}lv more."
- **All prices** must be **rounded to two digits after the decimal point**.

Examples

Input	Output	Comments
100 2 1.0 2.0 3.0	The money is enough - it would cost 13.00lv.	Needed equipment for 2 padawans : $\text{sabresPrice} * (\text{studentsCount} + 10\%) + \text{robesPrice} * (\text{studentsCount}) + \text{beltsPrice} * (\text{studentsCount} - \text{freeBelts})$ $1 * (3) + 2 * (2) + 3 * (2) = 13.00$ $13.00 \leq 100$ – the money will be enough.
Input	Output	Comments
100 42	Ivan Cho will need 737.00lv more.	Needed equipment for 42 padawans: $12 * 47 + 4 * 42 + 3 * 35 = 837.00$

12.0 4.0 3.0		837 > 100 – need 737.00 lv. more.
--------------------	--	-----------------------------------