Programming Basics Exam

Problem 3. Computer Hall

In the large computer hall, prices vary due to high attendance rates. Fees for the hall depend on the time of day - either **day or night**, and **the month in which the room was attended**. Prices are as follows:

	March to May	June to August
Day	10.50 per hour	12.60 per hour
Night	8.4 per hour	10.20 per hour

The following **discounts** are also offered in the following sequence:

- For a **group of four** or **more** people, the cost per person is **reduced** by **10%**
- For **5 hours or more**, the price is **reduced by 50% per person**

Write a program that calculates the **price per person per hour and the total amount**.

Input

The input is read from the **console** and contains **exactly 4 lines**:

- On the **first** line - the **month** - a text with options "**January**", "**February**", "**March**", "**April**", "**May**", "**June**", "**July**", "**August**", "**September**", "**October**", "**November**", "**December**"
- On the **second** line - **the number of hours spent**, an **integer [1...10]**
- On the **third** line - **the number of people in the group, an integer [1...10]**
- The **fourth** line - **time of the day** - either "**day**" or "**night**"

Output

Print two lines on the console:

- On the **first line**: "**Price per person for one hour: {price per person per hour}**"
- On the **second line**: "**Total cost of the visit: {total price}**"

The price should be **rounded to the second decimal place**.

Sample input and output

Input	Output	Constrains
March **3** **3** **day**	**Price per person for one hour: 10.50** **Total cost of the visit: 94.50**	The price is **10.50**. (**March day**) per person. **(10.50 * 3) * 3 = 94.50 total price** for the whole visit
July **5** **5** **night**	**Price per person for one hour: 4.59** **Total cost of the visit: 114.75**	The price is **10.20**. (**July night**) per person. People are **more than 4** => **10.20 – (10.20 * 0.1) = 9.18**. The hours are **5 => 9.18 - (9.18 * 0.5) = 4.59 per person**. **(4.59 * 5) * 5 = 114.75 total price** for the whole visit