# Problem 1. Space Trip

Ivan is very tired of work on earth and wants to take a holiday abroad. Luckily, he still has about 3 days of paid leave left, so he decides to visit a random nearby star. He’s heard from all his friends that the temperatures are very tropical.

Your task is to calculate whether his fuel will be enough to reach his tropical multi-thousand-degree destination.

## Input / Constraints

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

* The **destination star** – a **string**
* The **destination star’s** **distance** from Earth **in** **gigameters** (1 **Gm** == 1,000,000 **km**) – **integer**
* Ivan’s budget – an **integer** in the range **[200-90000000]**
* Ivan’s space shuttle **fuel consumption** in **liters per** **100 Gm** – a **floating-point number** in the range **[0.0-15.0]**
* The current **gas price** in **dollars** **per liter** – a **floating-point** number in the range **[0.3-12.5]**

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 Ivan has enough money to afford the trip, print:

* Off to {destination} with ${leftover:.2f} for snacks

If Ivan has enough money to afford the server + storage + host combo, print:

* Maybe another time, need ${leftover:.2f} more

***Note: Format all prices to the 2nd decimal point.***

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| Alpha Centauri  41315010  12400000  15  2 | Off to Alpha Centauri with $5497.00 for snacks | Liters per Gm: 15/100 🡺 $0.15  Price per Gm: 0.15 \* 2 🡺 $0.3  Total: $12394503.00 |
| **Input** | **Output** | **Comments** |
| Proxima Centauri  56760000  1200000  7  0.3 | Off to Proxima Centauri with $8040.00 for snacks | Liters per km: 7/100 🡺 $0.07  Price per Gm: $0.07 \* 0.3 🡺 $0.021  Total: $1191960.0 |
| **Input** | **Output** | **Comments** |
| Sirius  81360000  8000000  0.8  12.5 | Maybe another time, need $136000.00 more | Liters per km: 0.8/100 🡺 $0.008  Price per Gm: $0.008 \* 12.5 🡺 $0.1  Total: $8136000.0 |

*“I am just a child who has never grown up. I still keep asking these “how” and “why” questions. Occasionally, I find an answer.”*

*-****Stephen Hawking*** *(08/01/1942–13/03/2018)*