Spring Vacation Trip

A group of friends decide to go to a trip for a few days during spring vacation. They have a certain budget. Your task is to calculate their expenses during the trip and find out if they are going to have enough money to finish the vacation.

Create a program that calculates travelling expenses by entering the following information:

- **Days of the vacation**
- **Budget** - its for the whole group
- **The count of people**
- **Fuel per kilometer – the price for fuel** that their car consumes **per kilometer**
- **Food expenses per person**
- **Hotel room price for one night** – again, for **one person**

If the group **is bigger than 10**, they receive a **25% discount** from the **total hotel expenses**.

Every day, they **travel** some **distance** and you have to **calculate the expenses** for the **travelled kilometers**.

Every **third** and **fifth** day, they have some additional expenses, which are **40% of the current value of the expenses**.

Every **seventh** day, their expenses are reduced, because they **withdraw (receive)** a small amount of money – you can calculate it by **dividing the amount of the current expenses** by the **group of people**.

If the **expenses exceed the budget at some point**, stop calculating and print the following message:

```
"Not enough money to continue the trip"
```

If the **budget is enough**:

```
"You have reached the destination. You have {money}$ budget left."
```

Print the result formatted **2 digits** after the decimal separator.

Input / Constraints

- **On the 1st line**, you are going to receive the days of the trip – **an integer** in the range **[1…100]**
- **On the 2nd line** – the budget – **a real number** in the range **[0.00 – 1000000.00]**
- **On the 3rd line** - the group of people – **an integer** in the rang **[1 - 50]**
- **On the 4th line** – the price for fuel per kilometer – **a real number [0.00 – 20.00]**
- **On the 5th line** – food expenses per person for a day – **a real number [0.00 – 50.00]**
- **On the 6th line** – the price for a room for one night per person – **a real number [0.00 – 1000.00]**
- On the next **n** lines – one for each of the days – the **travelled distance** in kilometers per day– **a real number** in the range **[0.00 - 1000]**

Output

- `"Not enough money to continue the trip. You need {money}$ more."` – if the budget is not enough
- `"You have reached the destination. You have {money}$ budget left."` – if it's enough.

Print the result formatted **2 digits** after the decimal separator.

Examples

Input	Output	Comments
7 **12000** **5** **1.5** **10** **20** 512 318 202 154 222 108 123	You have reached the destination. You have 5083.48$ budget left.	We receive the days of the vacation, the budget, the group, the consumed fuel per kilometer, the food expenses and the price for a hotel room for one night. We must calclate the food expenses: **10 * 5 * 7 = 350** And the price for the hotel for all of the nights: **20 * 5 * 7 = 700** The curent expenses are **1050**. For each day, we have to calculate the consumed fuel – **{travelledDistance} * 1.5** On every **3rd** and **5th** day we add the additional expenses: **0.4 * {currentExpenses}** On every **7th** day, they **receive** some **money**: **{currentExpense} / {groupOfPeople}** After **we have added** the **fuel expenses for each day** and made the **other calculations**, the **expenses** have reached **8645.652**. When we divide them by **the group (5),** the result is **1729.1304**, so we have to **reduce the expenses** by that sum. The expenses become **6916.5216**. The budget is **enough**, so the result is: "You have reached the destination. You have 5083.48$ budget left."
10 **20500** **11** **1.2** **8** **13** 100 150 500 400 600	Not enough money to continue the trip. You need 465.79$ more.	

130 300 350 200 300		