# 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** - itsfor 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  130  300  350  200  300 | Not enough money to continue the trip. You need 465.79$ more. |  |