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

- continue "Not enough money the need {money}\$ to trip. You 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
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7	You have reached the	We receive the days of the vacation, the budget, the group, the
12000	destination. You have	consumed fuel per kilometer, the food expenses and the price for a hotel
5	5083.48\$ budget left.	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:
1.5		20 * 5 * 7 = 700
10		The curent expenses are 1050 . For each day, we have to calculate the
20		consumed fuel – {travelledDistance} * 1.5
512		On every 3rd and 5th day we add the additional expenses:
318		0.4 * {currentExpenses}
202		On every 7 th day, they receive some money :
154		{currentExpense} / {groupOfPeople}
222		After we have added the fuel expenses for each day and made the other
108		them by the group (5), the result is 1729.1304, so we have to reduce the
123		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	Not enough money to	
20500	continue the trip. You need	
11	465.79\$ more.	
1.2		
8		
13		
100		
150		
500		
400		
600		
130		
300		

















350	
200	
300	

















