

Problem**Marks (8)**

PayMoney. processes thousands of transactions daily amounting to crores of Rupees. They also have a daily target that they must achieve. Given a list of transactions done by PayMoney and a daily target, your task is to determine at which transaction PayMoney achieves the same. If the target is not achievable, then display the target is not achieved.

TestCase 1

enter the size of transaction array

3

enter the values of array

20 12 31

enter the total no of targets that needs to be achieved

2

enter the value of target

21

Target achieved after 2 transactions

enter the value of target

19

Target achieved after 1 transactions

Explanation

Target 1 i.e 21 is achieved after 2 transactions, (20 + 12)

Target 2 i.e 19 is achieved in the 1st transaction itself.

Test Case 2

enter the size of transaction array

1

enter the values of array

100

enter the total no of targets that needs to be achieved

1

enter the value of target

101

Given target is not achieved

Explanation → Since there is only 1 transaction that is of 100 and the target value is 101, hence target is not achieved.



Question**Marks (12)**

You are a traveler and traveling to a country where the currency denominations are unknown and as you travel you get to know about the denomination in random order. You want to make a payment of amount x , in such a way that the higher denomination is used to make exact payment.

Input

Take input of all the currency denominations (random order)

Take input of the amount that you want to pay.

Output

Print the minimum no of notes that you will be using to pay the net amount.

TestCase 1

enter the size of currency denominations

3

enter the currency denominations value

5

1

10

enter the amount you want to pay

12

Your payment approach in order to give min no of notes will be

10:1

1:2

TestCase 2

enter the size of currency denominations

5

enter the currency denominations value

60

5

12

78

25

enter the amount you want to pay

128

Your payment approach in order to give min no of notes will be

78:1

25:2

TestCase 3

enter the size of currency denominations

4

enter the currency denominations value

12

5

123

18

enter the amount you want to pay

158

Your payment approach in order to give min no of notes will be

123:1

18:1

12:1

5:1

Learning Objectives:

1. Practice and enhance Logical skills.
2. Implement the DSA concepts learnt in problem solving.
3. Write efficient, clean and readable code.