# Question 1 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.

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# 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.

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Solution Design

READ from CSV file list of TransactionId + Transaction Amounts.

Create Array of Transaction Objects Trasaction Id as String an Transaction amount as Decimal.

Iterate over it and Provide the Transaction Id and Transaction index as output.

# Question 2 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 number of notes you give is minimum.

//Assume that the denominations are in such a way that any amount can be paid.

# 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