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.

Solution →

```
package com.greatlearning.iitr.dsa.labsession2;
import java.util.Scanner;
class Transaction {
    public static void main(String args[]) throws Exception {
        Scanner s = new Scanner(System.in);
        System.out.println("enter the size of transaction array");
        int size = s.nextInt();
        int arr[] = new int[size];
        System.out.println("enter the values of array");
        for (int i = 0; i < size; i++)
        arr[i] = s.nextInt();</pre>
```

```
System.out.println("enter the total no of targets that needs to be achieved");
              int targetNo = s.nextInt();
              while (targetNo-- != 0) {
                     int flag = 0;
                     long target;
                     System.out.println("enter the value of target");
                     target = s.nextInt();
                     long sum = 0;
                     for (int i = 0; i < size; i++) {
                            sum += arr[i];
                            if (sum >= target) {
                                   System.out.println("Target achieved after "+(i + 1) + "
transactions ");
                                   flag = 1;
                                    break;
                     if (flag == 0) {
                            System.out.println(" Given 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

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