<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Greedy Algorithms</u> / <u>1-G-Coin Problem</u>

Started on	Tuesday, 20 August 2024, 2:09 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:38 PM
Time taken	28 mins 36 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

Question 1 Correct Mark 1.00 out of 1.00

Write a program to take value V and we want to make change for V Rs, and we have infinite supply of each of the denominations in Indian currency, i.e., we have infinite supply of { 1, 2, 5, 10, 20, 50, 100, 500, 1000} valued coins/notes, what is the minimum number of coins and/or notes needed to make the change.

Input Format:

Take an integer from stdin.

Output Format:

print the integer which is change of the number.

Example Input:

64

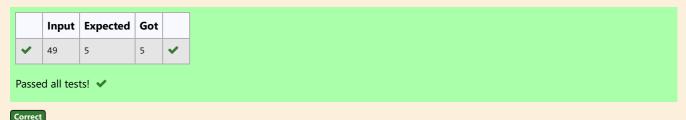
Output:

Explanaton:

We need a 50 Rs note and a 10 Rs note and two 2 rupee coins.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
 3
    int main(){
        //int arr[10]={1,2,5,10,20,50,100,500,1000};
 4
 5
        int n;
        scanf("%d",&n);
 6
 7
        int a=0,b=0,c=0,d=0,e=0,f=0,g=0,a1=0,b1=0,c1=0,d1=0,e1=0,h1=0,f1=0,g1=0;
 8
        a=n%1000;a1=n/1000;
 9
        b=a%500;b1=a/500;
10
        c=b\%100; c1=b/100;
11
        d=c\%50;d1=c/50;
        e=d\%20; e1=d/20;
12
13
        f=e%10;f1=e/10;
14
        g=f\%5;g1=f/5;
15
        h1=g/2;
        printf("%d",a1+b1+c1+d1+e1+f1+g1+h1);
16
17
18
   }
```



Marks for this submission: 1.00/1.00.

→ Problem 5: Finding Complexity using counter method

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2-G-Cookies Problem ►