

CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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Started on	Tuesday, 20 August 2024, 1:30 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 1:47 PM
Time taken	7 days
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

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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:

4

Explanaton:

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int v,count=0;
4     int a[]={1000,500,100,50,20,10,5,2,1};
5     scanf("%d",&v);
6     for(int i=0;i<9;i++){
7         if(v>=a[i]){
8             count++;
9             v=v-a[i];
10        }
11    }
12    printf("%d",count);
13    return 0;
14 }
```

	Input	Expected	Got	
✓	49	5	5	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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[← Problem 5: Finding Complexity using counter method](#)

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