

# CS23331-Design and Analysis of Algorithms-2023 Batch-CS

Quiz navigation



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Status	Finished
Started	Wednesday, 19 March 2025, 10:13 PM
Completed	Wednesday, 19 March 2025, 10:19 PM
Duration	6 mins 26 secs
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  
Explanation:  
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 minCost(int v)
3 {
4     int d[]={1000,500,100,50,20,10,5,2,1};
5     int count=0;
6     for(int i=0;i<9;i++)
7     {
8         count+=v/d[i];
9         v%=d[i];
10    }
11    return count;
12 }
13 int main()
14 {
15     int v;
16     scanf("%d",&v);
17     printf("%d",minCost(v));
18     return 0;
19 }
```

	Input	Expected	Got	
	49	5	5	

Passed all tests!

**Correct**  
Marks for this submission: 1.00/1.00.

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