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CS23331-DAA-2024-CSE / 1-G-Coin Problem

1-G-Coin Problem

Started on	Wednesday, 13 August 2025, 8:50 AM
State	Finished
Completed on	Wednesday, 13 August 2025, 9:30 AM
Time taken	39 mins 30 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:

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 index(int a, int arr[9]){
3     int i = 0;
4     while(a >= arr[i]){
5         i++;
6     }
7     return arr[i-1];
8 }
9 int main(){
10    int a;
11    scanf("%d", &a);
12    int arr[9] = {1,2,5,10,20,50,100,500,1000};
13    int c = 0;
14    int b ;
15    while( a>0){
16        b = index(a, arr);
17        c++;
18        a -= b;
19    }
20    printf("%d", c);
21
22    return 0;
23
24
25
26 }
```

	Input	Expected	Got	
✓	49	5	5	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Data retention summary