Started on	Tuesday, 20 August 2024, 2:51 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 12:27 PM
Time taken	6 days 21 hours
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

Explanaton:

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

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>

int min_coins(int value) {

    int denominations[] = {1000, 500, 100, 50, 20, 10, 5, 2, 1};
    int n = sizeof(denominations) / sizeof(denominations[0]);


    int coin_count = 0;


    for (int i = 0; i < n; i++) {

        coin_count += value / denominations[i];

        value %= denominations[i];
    }

    return coin_count;
}

int main() {
    int V;



    scanf("%d", &V);


    printf("%d\n", min_coins(V));

    return 0;
}
```

	Input	Expected	Got	
✔	49	5	5	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Problem 5: Finding Complexity using counter method

Jump to...

2-G-Cookies Problem ►