Started on	Tuesday, 3 September 2024, 1:44 PM
State	Finished
Completed on	Tuesday, 3 September 2024, 2:13 PM
Time taken	29 mins
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 minCoins(int V) {
  int denominations[] = {1000, 500, 100, 50, 20, 10, 5, 2, 1};
  int n = sizeof(denominations) / sizeof(denominations[0]);
  int count = 0;
  for (int i = 0; i < n; i++) {
    if (V == 0) {
      break;
    }
    count += V / denominations[i];
    V = V % denominations[i];
  }
  return count;
}
int main() {
  int V;
  scanf("%d", &V);
  int result = minCoins(V);
  printf("%d\n", result);
  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 ►