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Thread: [Comp Sci Help \[LOOPS\]](#)

Yukino - November 11, 2019, 9:53 pm

Determine all possible ways to make change for a dollar using only quarters, dimes, nickels and pennies. The output must show the results, one line at a time, without showing zeros. Count the number of ways that the program finds to make change and print this result at the end of the program.

For example: 2 quarters, 5 dimes NOT 2 quarters, 5 dimes, 0 nickels, 0 pennies.

Honestly. I'm done with java.

Varius - November 12, 2019, 3:57 am

You want a solved solution or a hint?

make a counter for each type

make a balance variable

Try to put the balance divided by the counter size (i.e balance = 90 cents, quarter size is 25, so $\text{quarter_Counter} = \text{balance} / \text{quarter_size}$)

then remove the size * counter from the balance and keep going down till you reach the smallest value.

Then just do an if statement for each of the counters.

Yukino - November 12, 2019, 6:20 am

(Nov 12, 2019 04:57 AM)Varius Wrote: [\[CITE\]](#) You want a solved solution or a hint?

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Then just do an if statement for each of the counters.

Could you perhaps explain it using 4 for loops?

Accord - November 12, 2019, 6:42 am

I like to help but dont get the question, still not good in English. I dont get quarter, dimes, pennies and nickels.

GenericSkid - November 12, 2019, 11:17 am

(Nov 12, 2019 07:42 AM)Dionysus. Wrote: [\[CITE\]](#) I dont get quarter, dimes, pennies and nickels.

The question: How many ways can you count to 100 using only 25, 10, 5, 1.

Examples:1+..+1+1+1+1+1=100

1+..+5=100

...

25+25+25+25=100

Eternal Darkness - November 12, 2019, 3:28 pm

(Nov 12, 2019 07:20 AM)Yukino Wrote: [\[CITE\]](#) Could you perhaps explain it using 4 for loops?

Using 4 loops:

```
Code public static int breakCentsDown(int num) {
    int count = 0;
    for (int q = 0; q <= num / 25; q++) {    //0 to max quarters in num (100 in this case) cents
        for (int d = 0; d <= num / 10; d++) { //0 to max dimes in num (100 in this case) cents
            for (int n = 0; n <= num / 5; n++) { //0 to max nickels in num (100 in this case) cents
                for (int p = 0; p <= num; p++) { //0 to max pennies in num (100 in this case) cents
                    int v = q * 25 + d * 10 + n * 5 + p; //calculate current total
                    if (v == num) {                //if desired amount, output and increase counter
                        System.out.println(String.format("%d quarter(s), %d dime(s), %d nickel(s), and %d
pennies", q, d, n, p));
                        count++;
                    } else if (v > num) {           //if over value, no longer need to waste time computing
                        break;
                    }
                }
            }
        }
    }
    return count;
}

public static void main(String[] args) {
    System.out.println("Total ways to break cents down: " + breakCentsDown(100)); //100 cents =
$1, alternatively can pass 1 and multiply num by 100 in the function
}(Does not adhere to all specifications in the original post)
```

Accord - November 12, 2019, 4:50 pm

(Nov 12, 2019 12:17 PM)GenericSkid Wrote: [\[CITE\]](#) The question: How many ways can you count to 100 using only 25, 10, 5, 1.

Examples:1+..+1+1+1+1+1=100

1+..+5=100

...

25+25+25+25=100

Oh am very thankful, I dont really know the value of them and now I get it.