CodeStepByStep

sebgascoin

< digitCount

Main Page → Exercises → C++ → Solve an Exercise

factorial >

factorCount

Language/Type: C++ cumulative sum return

Write a function named **factorCount** that accepts an integer (assumed to be positive) as its parameter and returns a count of its positive factors. For example, the eight factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24, so the call of `factorCount(24)` should return 8.

.
.
.

```
1  int factorCount(int input);
2
3  int factorCount(int input){
4     int retval;
5     int inp = input;
6     if(input > 0){
7        for(int j = 1; j<inp;j++){
8           if(inp % j == 0){
9              retval++;
10          }
11       }
12       retval++;
13    }
14    return retval;
15 }
```

Function: Write a C++ function as described, not a complete program.

Submit

You passed 6 of 6 tests.

- factorCount(12) → 6
- factorCount(24) → 8

✓ `factorCount(7)`	→	2
✓ `factorCount(420)`	→	24
✓ `factorCount(625)`	→	5
✓ `factorCount(1)`	→	1

Testing began at 2023/03/19 11:59 (PDT) and ran for 1142 ms.

Need help?

Stuck on an exercise? Contact your TA or instructor.

If something seems wrong with our site, please contact us.