**5 kyu**

**Number of trailing zeros of N!**

5729483% of1,149157 of 9,972[Iv.D](https://www.codewars.com/users/Iv.D)

C++

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Write a program that will calculate the number of trailing zeros in a factorial of a given number.

N! = 1 \* 2 \* 3 \* ... \* N

Be careful 1000! has 2568 digits...

For more info, see: <http://mathworld.wolfram.com/Factorial.html>

Examples

zeros(6) = 1

# 6! = 1 \* 2 \* 3 \* 4 \* 5 \* 6 = 720 --> 1 trailing zero

zeros(12) = 2

# 12! = 479001600 --> 2 trailing zeros

*Hint: You're not meant to calculate the factorial. Find another way to find the number of zeros.*

<https://www.codewars.com/kata/number-of-trailing-zeros-of-n/cpp>

<https://www.geeksforgeeks.org/count-trailing-zeroes-factorial-number/>

// C++ program to count

// trailing 0s in n!

#include <iostream>

using namespace std;

// Function to return trailing

// 0s in factorial of n

int findTrailingZeros(int n)

{

    // Initialize result

    int count = 0;

    // Keep dividing n by powers of

    // 5 and update count

    for (int i = 5; n / i >= 1; i \*= 5)

        count += n / i;

    return count;

}

// Driver Code

int main()

{

    int n = 100;

    cout << "Count of trailing 0s in " << 100

         << "! is " << findTrailingZeros(n);

    return 0;

}