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...ssignments\131_Assignment_5\Question_3\Question_3.cpp 1
1 // Question_3.cpp : This file contains the 'main' function. Program 2
  execution begins and ends there. 3
2 // 3
3 // / 4
  ----- 5
  ----- 6
4 //Name Sai Chaitanya Kilambi 7
5 //Course CPSC 131 Data Structures, Fall, 2022 8
6 //Assignment No.5 question:3 9
7 //Due date 09/28/2022 10
8 // Purpose: 11
9 // This program call a recursive function that computes the sum of squares 12
10 //----- 13
  ----- 14
11 // list of libraries 15
12 // 16
13 //importing the required libraries 17
14 #include <iostream> 18
15 19
16 //creating the recursive function 20
17 int sumOfsq(int n) { 21
18     if (n == 3) { 22
19         return 9; //fact 23
20     } 24
21     else { 25
22         return sumOfsq(n - 1) + std::pow(n, 2); //recursion 26
23     } 27
24 } 28
25 29
26 //main function 30
27 int main() 31
28 { 32
29     int n=8; //testing foe the value 8 33
30     std::cout <<"When n=8 the answer is: "<< sumOfsq(n); //calling and 34
      printing the output from the recursive function 35
31     return 0; 36
32 } 37
33 38
34 39
```