PLACEMENTS KEY'S

Coding Challenge #27 (Question)

Day - 14

Consider the following series: 1,1,2,3,4,9,8,27,16,81,32,243,64,729,128,2187…
Write a program to find the N^{th} term in the series.

This series is a mixture of 2 series - all the odd terms in this series form a geometric series and all the even terms form yet another geometric series.

Input Format:

The value N in a positive integer that should be read from STDIN.

Output Format:

The N^{th} term that is calculated by the program should be written to STDOUT. Other than value of nth term, no other character / string or message should be written to STDOUT.

Sample Input 0:

5

Sample Output 0:

4

Sample Input 1:

10

Sample Output 1:

81

PLACEMENTS KEY'S

Coding Challenge #28 (Question)

Day - 14

Program to find the area of a circle.

The input diameter will be given as an integer, the output area should be printed as a floating-point value with 2-point precision. No other extra information should be printed except the area value to the stdout. (Assume Pi = 3.14)

Sample Input 0:

6

Sample Output 0:

28.26

Sample Input 1:

20

Sample Output 1:

314