

C	Session	Input & Output	Question Information	Level 2	Challenge 6
<p>Problem Description:</p> <p>Arul and Kani own the farm in the beautiful location of the city where lot of cows were roaming around. One day Arul and Kani were out of the city. On that day cows have eaten the grasses in the farm which is circular in structure.</p> <p>When Arul and Kani reached the location they were shocked to see the grass being eaten by cows. Now they would like to know for how much area and circumference of the farm the cows have eaten the grass.</p> <p>Can you help them find it.</p> <p>Functional Description:</p> <p>Circumference = $2 * \pi * r$</p> <p>Area = $\pi * r * r$</p> <p>$\pi = 3.14$</p> <p>Constraints:</p> <p>$1.00 \leq \text{rad} \leq 100.00$</p> <p>Input Format:</p> <p>The only line of the input represents the radius of the circle of type float.</p> <p>Output Format:</p> <p>Print the area in the first line and circumference in the second line with only 2 values after decimal point</p>					

▼ Logical Test Cases

<p>Test Case 1</p> <hr/> <p>INPUT (STDIN)</p> <p>78.6</p> <p>EXPECTED OUTPUT</p> <p>19398.79 493.61</p>	<p>Test Case 2</p> <hr/> <p>INPUT (STDIN)</p> <p>91.3</p> <p>EXPECTED OUTPUT</p> <p>26174.07 573.36</p>
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▼ Mandatory Test Cases

<p>Test Case 1</p> <hr/>	<p>Test Case 2</p> <hr/>	<p>Test Case 3</p> <hr/>
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KEYWORD

float rad;

KEYWORD

float PI=3.14,area,ci;

KEYWORD

%.2f

▼ Complexity Test Cases

Test Case 1

CYCLOMATIC COMPLEXITY

1

Test Case 2

TOKEN COUNT

70

Test Case 3

NLOC

13

CODE:

```
//CH.SC.U4CSE24022
#include <stdio.h>
#define PI 3.14
int main()
{
    float rad,area,ci;
    scanf("%f",&rad);
    area = PI*rad*rad;
    ci = 2*PI*rad;
    printf("%.2f\n",area);
    printf("%.2f",ci);
    return 1;
}
```

OUTPUT:

78.6

19398.79

493.61

Process returned 1 (0x1) execution time : 2.130 s

Press any key to continue.

78.6

19398.79

493.61

Process returned 1 (0x1) execution time : 2.130 s

Press any key to continue.