

Day 1: Let and Const



Objective

In this challenge, we practice declaring variables using the `let` and `const` keywords. Check out the attached tutorial for more details.

Task

1. Declare a *constant variable*, ***PI***, and assign it the value `Math.PI`. You will not pass this challenge unless the variable is declared as a constant and named **PI** (uppercase).
2. Read a number, ***r***, denoting the radius of a circle from stdin.
3. Use ***PI*** and ***r*** to calculate the ***area*** and ***perimeter*** of a circle having radius ***r***.
4. Print ***area*** as the first line of output and print ***perimeter*** as the second line of output.

Input Format

A single integer, ***r***, denoting the radius of a circle.

Constraints

- $0 < r \leq 100$
- ***r*** is a floating-point number scaled to *at most* **3** decimal places.

Output Format

Print the following two lines:

1. On the first line, print the ***area*** of the circle having radius ***r***.
2. On the second line, print the ***perimeter*** of the circle having radius ***r***.

Sample Input 0

```
2.6
```

Sample Output 0

```
21.237166338267002
16.336281798666924
```

Explanation 0

Given the radius ***r*** = 2.6, we calculate the following:

- $area = \pi \cdot r^2 = 21.237166338267002$
- $perimeter = 2 \cdot \pi \cdot r = 16.336281798666924$

We then print ***area*** as our first line of output and ***perimeter*** as our second line of output.

click + to see why (let r = readLine()

'use strict'; ...

function main() {

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```
13 process.stdin.on('end', _ => {
14   inputString = inputString.trim().split('\n').map(string => {
15     return string.trim();
16   });
17
18   main();
19 });
20
21 function readLine() { see this function(readLine) that is define here
22   return inputString[currentLine++];
23 }
24
25 function main() {
26   const PI = Math.PI
27   let r= readLine()
28   console.log(PI * (Math.pow(r, 2)))
29   let perimeter = 2 * PI * r
30   // console.log(area)
31   console.log(perimeter)
32
33   return 0;
34
35 try { ...
```

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