Day 1: Let and Const

HackerRank

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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```
process.stdin.on('end', _ => {
    inputString = inputString.trim().split('\n').map(string => {
        return string.trim();
    });

    main();
});

function readLine() {
    return inputString[currentLine++];
}

function main() {
    const PI = Math.PI
    let r= readLine()
    console.log(PI * (Math.pow(r, 2)))
    let perimeter = 2 * PI * r
    // console.log(area)
    console.log(perimeter)

    return 0;

    try {    ···
```

see this function(readLine) that is define here

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