Problem 2469: Convert the Temperature

Problem Information

Difficulty: Easy
Acceptance Rate: 90.23%
Paid Only: No
Tags: Math

Problem Description

You are given a non-negative floating point number rounded to two decimal places `celsius`, that denotes the **temperature in Celsius**.

You should convert Celsius into **Kelvin** and **Fahrenheit** and return it as an array `ans = [kelvin, fahrenheit]`.

Return _the array`ans`. _Answers within `10-5` of the actual answer will be accepted.

Note that:

* `Kelvin = Celsius + 273.15` * `Fahrenheit = Celsius * 1.80 + 32.00`

Example 1:

Input: celsius = 36.50 **Output:** [309.65000,97.70000] **Explanation:** Temperature at 36.50 Celsius converted in Kelvin is 309.65 and converted in Fahrenheit is 97.70.

Example 2:

Input: celsius = 122.11 **Output:** [395.26000,251.79800] **Explanation:** Temperature at 122.11 Celsius converted in Kelvin is 395.26 and converted in Fahrenheit is 251.798.

Constraints:

* `0 <= celsius <= 1000`

Code Snippets

C++:

```
class Solution {
public:
vector<double> convertTemperature(double celsius) {

}
};
```

Java:

```
class Solution {
public double[] convertTemperature(double celsius) {

}
}
```

Python3:

```
class Solution:
def convertTemperature(self, celsius: float) -> List[float]:
```