Problem 1362: Closest Divisors

Problem Information

Difficulty: Medium
Acceptance Rate: 61.81%
Paid Only: No
Tags: Math

Problem Description

Given an integer `num`, find the closest two integers in absolute difference whose product equals `num + 1` or `num + 2`.

Return the two integers in any order.

Example 1:

Input: num = 8 **Output:** [3,3] **Explanation:** For num + 1 = 9, the closest divisors are 3 & 3, for num + 2 = 10, the closest divisors are 2 & 5, hence 3 & 3 is chosen.

Example 2:

Input: num = 123 **Output:** [5,25]

Example 3:

Input: num = 999 **Output:** [40,25]

Constraints:

* `1 <= num <= 10^9`

Code Snippets

C++:

```
class Solution {
public:
vector<int> closestDivisors(int num) {

}
};
```

Java:

```
class Solution {
public int[] closestDivisors(int num) {

}
}
```

Python3:

```
class Solution:
def closestDivisors(self, num: int) -> List[int]:
```