

# Problem 1271: Hexspeak

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 58.36%

**Paid Only:** Yes

**Tags:** Math, String

## Problem Description

A decimal number can be converted to its **Hexspeak representation** by first converting it to an uppercase hexadecimal string, then replacing all occurrences of the digit `'0'` with the letter `'O'`, and the digit `'1'` with the letter `'I'`. Such a representation is valid if and only if it consists only of the letters in the set `{'A', 'B', 'C', 'D', 'E', 'F', 'I', 'O'}`.

Given a string `num` representing a decimal integer `n`, return the **Hexspeak representation** of `n` if it is valid, otherwise return `"ERROR"`.

**Example 1:**

**Input:** `num = "257"` **Output:** `"IOI"` **Explanation:** 257 is 101 in hexadecimal.

**Example 2:**

**Input:** `num = "3"` **Output:** `"ERROR"`

**Constraints:**

`1 <= num.length <= 12` \* `num` does not contain leading zeros. \* `num` represents an integer in the range `[1, 1012]`.

## Code Snippets

**C++:**

```
class Solution {  
public:  
    string toHexspeak(string num) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public String toHexspeak(String num) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def toHexspeak(self, num: str) -> str:
```