## 342. Power of Four

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Given an integer (signed 32 bits), write a function to check whether it is a power of 4.

## **Example:**

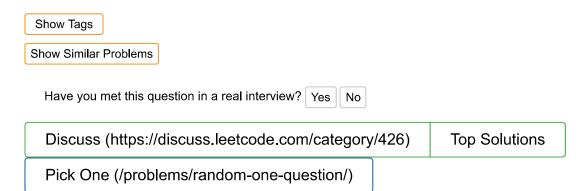
Given num = 16, return true. Given num = 5, return false.

Follow up: Could you solve it without loops/recursion?

## Credits:

Special thanks to @yukuairoy (https://leetcode.com/discuss/user/yukuairoy) for adding this problem and creating all test cases.

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☐ Notes

```
Python • C </>
```

```
class Solution(object):
 2
         def isPowerOfFour(self, num):
 3
 4
             :type num: int
 5
             :rtype: bool
 6
 7
 8
             while num>=1:
 9
                 if num%4==0:
10
                      num=num//4
11
                 else:
12
                      break
13
             return num==1
```

] Notes

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