

```
def is_power_of_four(n):  
    if n <= 0:  
        return False  
    # Check if n is a power of two  
    if (n & (n - 1)) != 0:  
        return False  
    # Check if the single bit is in  
    an odd position  
    if n & 0xAAAAAAAA != 0:  
        return False  
    return True  
  
    # Test cases  
print(is_power_of_four(16)) #  
    Output: True  
print(is_power_of_four(5)) #  
    Output: False  
print(is_power_of_four(1)) #  
    Output: True
```