

326.Power of Three & 231.Power of Two

题目描述: <https://leetcode.com/problems/power-of-three/>
<https://leetcode.com/problems/power-of-two/>

给定一个整数n, 判断其是不是3/2的整数次幂。
不可以使用迭代或者循环

解题思路:

整数中最大的3的倍数就是max3Power = 1162261467, 其余的都是max3Power的因子, 因此如果该整数是max3Power的整数因子就代表它是3的整数次幂。同理找到最大的2的倍数max2Power = 2^30

代码:

```
class Solution {
public:
    bool isPowerOfThree(int n) {
        const int max3Power = 1162261467;
        if(n<=0)
            return false;
        if(max3Power % n == 0)
            return true;
        return false;
    }
};
```

```
class Solution {
public:
    bool isPowerOfTwo(int n) {
        const int max2Power = pow(2,30);
        cout << max2Power <<endl;
        if(n <= 0 || n > max2Power)
            return false;
        if(n==1)
            return true;
        return max2Power % n==0;
    }
};
```

