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Leetcode May Challenge DAY: 01 [Explained Solution will be available soon]

1. Python [Binary Search]

class Solution:

def firstBadVersion(self, n):

l=1

r=n

while (l <= r):

mid = (l + r) // 2

if (isBadVersion(mid)):

r = mid - 1

else:

l = mid + 1

return l

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2. C++

```
class Solution {
public:
    int firstBadVersion(const int& n) {
        int start(1);
        int end(n);
        int mid(0);
        while (true) {
            if (start >= end) {
                break;
            }
            else if (start < end) {
                mid = start + (end - start) / 2;
                if (!isBadVersion(mid)) {
                    start = mid + 1;
                }
                else if (isBadVersion(mid)) {
                    end = mid;
                }
            }
        }
        return start;
    }
};
```

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3. JAVA

```
public int firstBadVersion(int n) {  
    int lo = 1, hi = n;  
    while (lo < hi) {  
        int med = lo + (hi - lo)/2;  
        if (isBadVersion(med)) {  
            hi = med;  
        } else {  
            lo = med + 1;  
        }  
    }  
    return lo;  
}
```