

Description

Solution

Submissions

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C#

## 278. First Bad Version

Easy

723

445

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You are a product manager and currently leading a team to develop a new product. Unfortunately, the latest version of your product fails the quality check. Since each version is developed based on the previous version, all the versions after a bad version are also bad.

Suppose you have  $n$  versions  $[1, 2, \dots, n]$  and you want to find out the first bad one, which causes all the following ones to be bad.

You are given an API `bool isBadVersion(version)` which will return whether `version` is bad. Implement a function to find the first bad version. You should minimize the number of calls to the API.

### Example:

Given  $n = 5$ , and version = 4 is the first bad version.

```
call isBadVersion(3) -> false
```

```
call isBadVersion(5) -> true
```

```
call isBadVersion(4) -> true
```

Then 4 is the first bad version.

Accepted 242,881

Submissions 786,246

Seen this question in a real interview before?

Yes

No

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```
1  /* The isBadVersion API is defined in the parent versionControl
2      bool IsBadVersion(int version); */
3
4  public class Solution {
5      public int FirstBadVersion(int n) {
6          int left = 1, right = n;
7          while (left < right) {
8              int mid = left + (right - left) / 2;
9              if (isBadVersion(mid)) {
10                 right = mid;
11             } else {
12                 left = mid + 1;
13             }
14         }
15         return left;
16     }
17 }
18
19
20
21
22
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24
25
```

Your previous code was res

Problems

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278/1163

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Console

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