1. **First Bad Version**

/\* The isBadVersion API is defined in the parent class VersionControl.

boolean isBadVersion(int version); \*/

public class Solution extends VersionControl {

public int firstBadVersion(int n) {

int l=1;

int r=n;

int ans=0;

System.out.println(l+" "+r);

while(l<=r){

int m=l+(r-l)/2;

if(isBadVersion(m)==true){

ans=m;

r=m-1;

}

else{

l=m+1;

}

}

return ans;

}

}

Learning: Initially I tried linear search as brute force but time limit was exceeded for large inputs. However I got to know since array is sorted, I can apply Binary Search and find the first value which is true.

1. **Jewels and Stones**

class Solution {

public int numJewelsInStones(String J, String S) {

int count=0;

HashSet<Character> jewels= new HashSet<Character>();

char[] j =J.toCharArray();

char[] s =S.toCharArray();

for(int i=0;i<j.length;i++){

jewels.add(j[i]);

}

for(int i=0;i<s.length;i++){

if(jewels.contains(s[i])){

count++;

}

}

return count;

}

}

Learning: I just found out that string questions are easy, but I complex it just l did above creating 2 character array and a hashset. So I have to learn Strings in Java and master it.