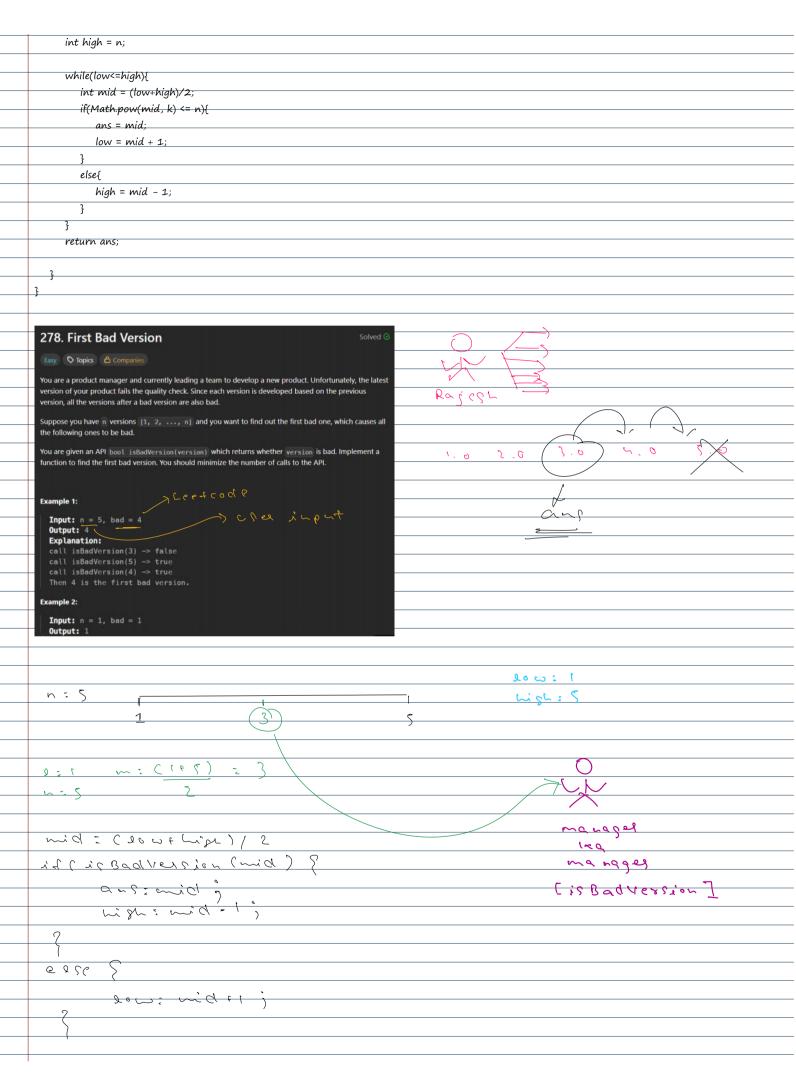


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           the floor of the Kar root
 Pind
public class Main {
   public static void main(String[] args) {
     int n = 149;
     int k = 3;
     System.out.println(kthRootLinear(n, k));
   public static int kthRootLinear(int n, int k){
     int ans = 0;
     for(int i=1; i<=n; i++){
       double power = Math.pow(i, k);
       if(power <= n){
          ans = i;
          break;
     return ans;
Bicary search
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                                      753 > 149 -> ~
 n= 1009
          m: (1+791:37
```

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  4:30
                                                                   149
public class Main {
   public static void main(String[] args) {
      int n = 149;
      int k = 3;
      System.out.println(kthRootLinear(n, k));
     System.out.println(kthRootBinary(n, k));
  3
   public static int kthRootLinear(int n, int k){
      int ans = 0;
      for(int i=1; i<=n; i++){
        double power = Math.pow(i, k);
        if(power <= n){
           ans = i;
        }
        else{
            break;
         }
      return ans;
   public static int kthRootBinary(int n, int k){
      int ans = 0;
      int low = 1;
```



```
Cougt & aint &
• 1 <= bad <= n <= 2<sup>31</sup> - 1
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                                           : bin
                                                                                               2
                 low + (high-low
 /* 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 low = 1;
      int\ high = n;
       int ans = -1;
       while(low<=high){
         // int mid = (low+high)/2;
         int mid = low + (high-low)/2;
         // int mid = low/2 + high/2; // -->X
         if(isBadVersion(mid)){
           ans = mid;
            high = mid-1;
            low = mid + 1;
       return ans;
```