```
    357. Count Numbers with Unique Digits

题目:给定10的次方数,计算在这个数字以内的各位数都不一样的数字个数
Hint:
  1.用visited[]记录每个数字的访问情况
  2.用num[]来作为变量记录数量
  3.经典backtracking
class Solution {
  public int countNumbersWithUniqueDigits(int n) {
    int count = 1;
    for(int i = 0; i < n; i++){
      count = count * 10;
    int[] num = new int[]{0};
    boolean[] visited = new boolean[10];
    dfs(0, 0, visited, count, num);
    return num[0];
  private void dfs(int pos, int nowstring, boolean[] visited, int count, int[] num){
    if(pos != 0 \&\& nowstring == 0){
       return;
    for(int i = 0; i < 10; i++){
      if(visited[i] == false){
         int newstring = 10 * nowstring + i;
         if(newstring < count){</pre>
           visited[i] = true;
           num[0] = num[0] + 1;
           dfs(pos + 1, newstring, visited, count, num);
           visited[i] = false;
         } else{
           break;

    60. Permutation Sequence

题目:给定一个数n,用1到n组成各位不相同的n位数,按照从小到大排列,再给出k输出第k位
Hint:
  1.用list存储所有结果
  2.backtracking
class Solution {
  public String getPermutation(int n, int k) {
    int min = 1;
    for(int i = 0; i < n - 1; i++){
      min = min * 10;
    boolean[] visited = new boolean[n + 1];
    List<Integer> list = new ArrayList<>();
    dfs(list, 0, min, visited, n);
    return String.valueOf(list.get(k - 1));
  private void dfs(List<Integer> list, int nownum, int min, boolean[] visited, int n){
    if(nownum >= min){
      list.add(nownum);
    for(int i = 1; i <= n; i++){}
      if(visited[i] == false){
         int newnum = nownum * 10 + i;
         visited[i] = true;
         dfs(list, newnum, min, visited, n);
         visited[i] = false;
   . 216. Combination Sum III
题目:
  1.给定一个目标数字,以及数列的位数
  2.在1-9里搜索递增的数列组成,数列的和为目标数字
Hint:
  1.backtracking
class Solution {
  public List<List<Integer>> combinationSum3(int k, int n) {
    List<List<Integer>> ans = new ArrayList<>();
    List<Integer> list = new ArrayList<>();
    dfs(k, list, ans, n, 0, 1);
    return ans;
  private void dfs(int k, List<Integer> nowlist, List<List<Integer>> ans, int target, int sum, int pos){
    if(target == sum && nowlist.size() == k){
      ans.add(new ArrayList<>(nowlist));
      return;
    if(sum > target){
       return;
    for(int i = pos; i < 10; i++){
      int newsum = sum + i;
      nowlist.add(i);
      dfs(k, nowlist, ans, target, newsum, i + 1);
      nowlist.remove(nowlist.size() - 1);
```

## . 90. Subsets II

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题目:找出给定array的所有subset(有重复)
Hint:
  1.backtracking
  2.出现重复的取第一位
class Solution {
  public List<List<Integer>> subsetsWithDup(int[] nums) {
    Arrays.sort(nums);
    List<List<Integer>> ans = new ArrayList<>();
    List<Integer> list = new ArrayList<>();
    dfs(nums, 0, list, ans);
    return ans;
  private void dfs(int[] nums, int pos, List<Integer> list, List<List<Integer>> ans){
    ans.add(new ArrayList<>>(list));
    for(int i = pos; i < nums.length; i++){
      if(i > pos && nums[i] == nums[i - 1]){
         continue;
       list.add(nums[i]);
       dfs(nums, i + 1, list, ans);
       list.remove(list.size() - 1);

    55. Jump Game
```

## 题目:对于给定array,array的每一个数字n代表能够向前走n格或以内Hint:

return cur >= nums.length - 1;

```
1.DP
  2.贪心
DP:
class Solution {
  public boolean canJump(int[] nums) {
     boolean[] length = new boolean[nums.length];
     length[0] = true;
     for(int i = 0; i < nums.length; i++){
       if(length[i] == true){
          int num = i + 1;
          for(int j = 0; j < nums[i]; j++){
            if(num < nums.length){</pre>
               length[num] = true;
               num++;
            } else{
               break;
     return length[nums.length - 1];
贪心:
class Solution {
  public boolean canJump(int[] nums) {
     int cur = 0;
     for(int i = 0; i < nums.length; i++){
       int now = i + nums[i];
       if(nums[i] == 0){
          if(cur <= i && i != nums.length - 1){
             return false;
       if(now > cur){}
          cur = now;
```