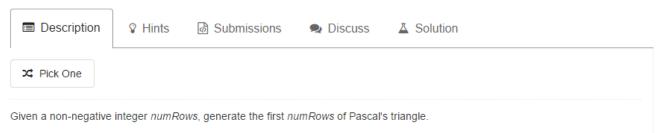
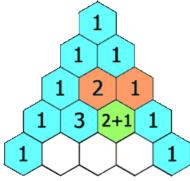
118. Pascal's Triangle





In Pascal's triangle, each number is the sum of the two numbers directly above it.

Example:

```
Input: 5
Output:
[
    [1],
    [1,1],
    [1,2,1],
    [1,3,3,1],
    [1,4,6,4,1]
]
```

```
public class L118 {
       public List<List<Integer>> generate(int numRows) {
           List<List<Integer>> lists = new ArrayList<List<Integer>>();
           //边界条件判断
           if(numRows <= 0)</pre>
               return lists;
           List<Integer> list_1 = new ArrayList<>();
           list_1.add(1);
           lists.add(list_1);
           if(numRows == 1)
           {
               return lists;
           }
           List<Integer> list_2 = new ArrayList<>();
           list_2.add(1);
           list_2.add(1);
           lists.add(list_2);
           if(numRows == 2)
               return lists;
           int i = 3;
           //用list_2记录上一行数据
           while (i <= numRows) {</pre>
               List<Integer> list_tmp = new ArrayList<>();
               list_tmp.add(1);
               for(int j = 1; j < i - 1; j ++)
               {
                   list_tmp.add(list_2.get(j - 1) + list_2.get(j));
               }
               list_tmp.add(1);
               lists.add(list_tmp);
               list_2 = list_tmp;
               i ++;
          }
          return lists;
       }
```