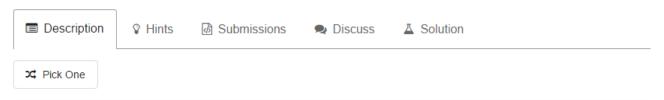
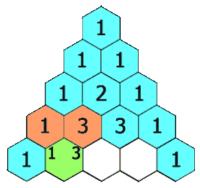
119. Pascal's Triangle II



Given a non-negative index k where $k \le 33$, return the k^{th} index row of the Pascal's triangle.

Note that the row index starts from 0.



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

Example:

Input: 3
Output: [1,3,3,1]

Follow up:

Could you optimize your algorithm to use only O(k) extra space?

```
public class L119 {
      public List<Integer> getRow(int rowIndex) {
            List<Integer> list = new ArrayList<Integer>();
            if(rowIndex < 0)</pre>
                return list;
            for(int i = 0; i <= rowIndex; i ++) {</pre>
                list.add(1);
            if(rowIndex == 0 || rowIndex == 1)
                return list;
            int i = 2;
            while (i <= rowIndex) {</pre>
                //这里必须从后面开始,因为从前面开始会修改原来的数,导致不是加的原来的数
                for(int j = i - 1; j >= 1; j --) {
                   list.set(j, list.get(j-1) + list.get(j));
                i++;
            }
            return list;
      public static void main(String [] args) {
          new L119().getRow(4);
}
```