

## 118. Pascal's Triangle

题目描述: <https://leetcode.com/problems/pascals-triangle/>

将长度为指定的帕斯卡三角输出  
例如: 长度为5的帕斯卡三角为

```
[
  [1],
  [1,1],
  [1,2,1],
  [1,3,3,1],
  [1,4,6,4,1]
]
```

解题思路:

循环求解  
注意边界

代码:

```
class Solution {
public:
    vector<vector<int>> generate(int numRows) {
        vector<vector<int> > res;
        if(numRows == 0)
            return res;
        vector<int> vv(1,1);
        res.push_back(vv);
        for(int i = 1; i < numRows; i++){
            vector<int> v(i+1,0);
            res.push_back(v);
            for(int j = 0; j <= i; j++){
                if(j-1 >= 0)
                    res[i][j]+=res[i-1][j-1];
                if(j < i)
                    res[i][j]+=res[i-1][j];
            }
        }
        return res;
    }
};
```