

Pascal's Triangle

Question: Given numRows, generate the first numRows of Pascal's triangle.

For example, given numRows = 5,

Return

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

Solutions:

```
class Solution:
```

```
    # @return a list of lists of integers
```

```
    def generate(self, numRows):
```

```
        if numRows == 0: return []
```

```
        result = [[1]]
```

```
        while len(result) < numRows:
```

```
            temp = [1]      # Every row starts with 1
```

```
            for index in range(len(result[-1])-1):
```

```
                temp.append(result[-1][index] + result[-1][index+1])
```

```
            temp.append(1)    # Every row ends with 1
```

```
            result.append(temp)
```

```
        return result
```

```
Solution().generate(5)
```