```python
class solution(object):
    def generateParenthesis(self, n):
        """
        :type n: int
        :rtype: List[str]
        """

        result = []
        self.generateParenthesisUtil(n,n,"",result)
        return result
    def generateParenthesisUtil(self, left,right,temp,result):
        if left == 0 and right == 0:
            result.append(temp)
            return
        if left>0:
            self.generateParenthesisUtil(left-1,right,temp+'(',result)
        if right > left:
            self.generateParenthesisUtil(left, right-1, temp + ')', result)
ob =solution()
print(ob.generateParenthesis(2))
```