**[Generate Parentheses](https://leetcode.com/problems/generate-parentheses/)**

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** GenerateParentheses {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

System.***out***.println(*generateParenthesis*(3));

}

**public** **static** List<String> generateParenthesis(**int** n) {

List<String> result = **new** ArrayList<>();

**if**(n < 1) {

**return** result;

}

*helper*(result , 0 , 0 , n , "");

**return** result;

}

**public** **static** **void** helper(List<String> result , **int** left , **int** right , **int** n , String path) {

**if**(left == n && right == n) {

result.add(path);

**return**;

}

**if**(left < n) {

*helper*(result , left + 1 , right , n , path + "(");

}

**if**(right < left) {

*helper*(result, left , right + 1 , n , path + ")");

}

}

}