**Strobogrammatic Number II**

Question

A strobogrammatic number is a number that looks the same when rotated 180 degrees (looked at upside down).

Find all strobogrammatic numbers that are of length = n.

**Example:**

**Input:** n = 2

**Output:** ["11","69","88","96"]

   Hide Hint #1

Try to use recursion and notice that it should recurse with *n* - 2 instead of *n* - 1.

#### **Solution**

#### Coding Solution

Java

|  |
| --- |
| public List<String> findStrobogrammatic(int n) {  return helper(n, n);  }  List<String> helper(int n, int m) {  if (n == 0) return new ArrayList<String>(Arrays.asList(""));  if (n == 1) return new ArrayList<String>(Arrays.asList("0", "1", "8"));    List<String> list = helper(n - 2, m);    List<String> res = new ArrayList<String>();    for (int i = 0; i < list.size(); i++) {  String s = list.get(i);    if (n != m) res.add("0" + s + "0");    res.add("1" + s + "1");  res.add("6" + s + "9");  res.add("8" + s + "8");  res.add("9" + s + "6");  }    return res;  } |