Daily Practice Problem Date 16/11/2023

Problem 1: Generate Parentheses

```
package ishwarchavan.com;
static void printParenthesis(char str[], int pos, int n, int open, int close)
//function created to print parentheses
     {
          if (close == n) {
                for (int i = 0; i < str.length; i++)  // print the possible</pre>
combinations
                     System.out.print(str[i]);
                System.out.println();
                return;
          else {
                if (open > close) {
                                    //condition checking
                     str[pos] = '}';
                     printParenthesis(str, pos + 1, n, open, close + 1);
                if (open < n) {
                     str[pos] = '{';
                     printParenthesis(str, pos + 1, n, open + 1, close);
                }
          }
     }
     static void printParenthesis(char str[], int n) // Wrapper over
printParenthesis()
     {
          if (n > 0)
               printParenthesis(str, 0, n, 0, 0);
          return;
     }
     public static void main(String[] args) //main program started
          int n = 2;
          char[] str = new char[2 * n];
          }
}
```

Problem 2: Single Number