

SAT: Domain and Structural Testing

1. Write domain (specification-based) and structural tests for the following procedure:

```
1 public int play(int left, int right) {  
2     int ln = left;  
3     int rn = right;  
4     if (ln > 21)  
5         ln = 0;  
6     if (rn > 21)  
7         rn = 0;  
8     if (ln > rn)  
9         return ln;  
10    else  
11        return rn;  
12 }
```

2. Write domain (specification-based) and structural tests for the following procedure:

```
1 public String sameEnds(String string) {
2     int length = string.length();
3     int half = length / 2;
4     String left = "";
5     String right = "";
6     int size = 0;
7     for (int i = 0; i < half; i++) {
8         left = left + string.charAt(i);
9         right = string.charAt(length - 1 - i) + right;
10        if (left.equals(right)) {
11            size = left.length();
12        }
13    }
14    return string.substring(0, size);
15 }
```