

```
/* This recursive method sums the integers from 1 to n.
 * Assume n > 0.
 */
public static int sum(int n) {
    // base case
    if (n == 1) {
        return 1;
    }
    // recursive case
    else {
        return n + sum(n-1);
    }
}
```

```
/* This recursive method removes all occurrences of the letter h
from the String s.
 *
 */
public static String removeH(String s) {
    // base case
    if (s.length() == 0) {
        return "";
    }
    // recursive case
    if (s.charAt(0) == 'h') {
        return removeH(s.substring(1));
    } else {
        return s.charAt(0) + removeH(s.substring(1));
    }
}
```

```
/* This recursive method sums up the entries in the array a,  
 * starting at the index start and finishing with the last entry  
 * in the array.  
 */
```

```
public static int sumEntries(int [] a, int start) {  
    // base case  
    if (start == a.length-1) {  
        return a[start];  
    }  
    // recursive case  
    else {  
        return a[start] + sumEntries(a,start+1);  
    }  
}
```

```
/* This recursive method doubles the letter r anywhere it  
 * appears in the String s. If there are two (or more) r in a  
 * row, this method will replace each of them with rr.  
 */
```

```
public static String doubleRs(String s) {  
    // base case  
    if (s.length() == 0) {  
        return s;  
    }  
    // recursive case  
    if (s.charAt(0) == 'r') {  
        return "rr" + doubleRs(s.substring(1));  
    }  
    else {  
        return s.charAt(0) + doubleRs(s.substring(1));  
    }  
}
```