

CSE 8B - Week 1 Discussion Worksheet

WeekOne.java - isDigit(), isLetter()

```
1  /*
2  * A class to discuss methods in the Character class
3  */
4  public class WeekOne {
5
6      /** Prints out digit or letter depending on what ch is
7       * @param ch The character we are checking
8       * */
9      public static void checkCharacter(char ch) {
10         _____ { // check for digit
11             System.out.println(ch + " is a digit");
12         } _____ { // check for letter
13             System.out.println(ch + " is a letter");
14         } _____ { // not handling other cases
15             System.out.println(ch + " is unrecognizable");
16         }
17     }
18
19     /** Computes the sum of all of the digits in the string
20     * @param digits The string with the digits we want to add
21     * @return The sum of all the digits
22     * */
23     public static int sumOfDigits(String digits) {
24         // only compute length once
25         int digitsLength = _____;
26         int total = 0;
27         char c;
28
29         for(int i = 0; i < digitsLength; i++) {
30             // get a single character
31             c = _____;
32
33             // check for digit
34             if(_____ ) {
35                 total += c - '0';
36             } else if(Character.isLetter(c)) {
37                 // get value for letters
38                 total += _____;
39             }
40         }
41
42         return total;
43     }
44
45     /** Main method that calls on our two methods defined above
46     * @param args Command-line arguments (unused)
47     * */
48     public static void main(String[] args) {
```

```
49         System.out.println("==== checkCharacter ====");
50         checkCharacter('8');
51         checkCharacter('b');
52         checkCharacter('\n');
53         checkCharacter(' ');
54
55         System.out.println("\n==== sumOfDigits =====");
56         System.out.println(sumOfDigits("AB101"));
57         System.out.println(sumOfDigits("CSE8B"));
58         System.out.println(sumOfDigits("X42X"));
59         System.out.println(sumOfDigits("ABCDEF"));
60     }
61 }
62
```

To compile this program:

\$

To run this program:

\$