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CMSC 21-2

1.
```
1    #include <stdio.h>
2
3    int main(void){
4
5        printf("a. In C, lowercase letters are significant.\n");
6        printf("b. main is where program execution begins.\n");
7        printf("c. Opening and closing braces enclose program statements in a routine.\n");
8        printf("d. All program statements must be terminated by a semicolon.");
9
10       return 0;
11   }
```

2. **Expected output:** Testing…….1…2..3

3.
```
1    # include <stdio.h>
2
3    int main(void){
4
5        int x, y, difference;
6
7        x = 87;
8        y = 15;
9        difference = x - y;
10
11       printf("The difference of %d minus %d is %d.", x, y, difference);
12
13       return 0;
14   }
```

4.
```
#include <stdio.h>
int main(Void)                          //add an opening braces at the end of this statement
        INT sum;                        //'INT' must be in lowercase
        /* COMPUTE RESULT               // single line comments are represented by '//'
        sum = 25 + 37 - 19              // add a semicolon at the end of this statement
        /* DISPLAY RESULTS //           // either use only '//' (single line comments) or
                                             '/* text */' (multiple line comments)

        printf ("The answer is %i\n" sum);    // insert a comma after the closing quotation mark
        return 0;
}
```

Corrected program:

```c
1     #include <stdio.h>
2
3     int main(void){
4
5         int sum;
6
7         // COMPUTE RESULT
8         sum = 25 + 37 - 19;
9
10        //DISPLAY RESULTS
11        printf ("The answer is %i\n", sum);
12
13        return 0;
14    }
```

5. Syntax error. The output from the program will not be displayed as intended. The punctuation mark at the end of line 4 must be a semicolon and not a period.