I. TRUE OR FALSE

- 1. TRUE
- 2. FALSE
- 3. FALSE
- 4. TRUE
- 5. FALSE
- 6. TRUE
- 7. FALSE
- 8. TRUE
- 9. FALSE
- 10.TRUE
- 11. FALSE

II. PROVIDE THE ANSWER TO THE FOLLOWING

- 1. Because regardless if it will be specified or not, the compiler will just ignore it anyway.
- 2a. bool isPalindrome(*string);
- 2b. float computeAverage(float array[20]);
- 2c. void reverseSentence();
- 2d. float squareRoot(int number);

3a.

- Invalid function nesting
- Missing quotation marks to some statements
- Should there be no parameters included

```
int fun(){
    printf("%s", "Inside function fun\n");

int bored(){
    printf("%s", "Inside function bored\n");
}
```

3b.

No return value.

```
50 int product(int a, int b){
51 int result = a*b;
52 return result;
53 }
```

3c.

- Variable declaration repeated.
- Some syntax errors were observed (semi-colon placed before bracket)

```
55 void fun (float a){
56 printf("%f", a);
57 }
```

3d.

- Some syntax errors were observed (missing semi-colons).
- Inappropriate return type.

```
11 int sum(void){
    printf("enter three integers: ");
    int a, b, c;
    scanf("%d%d%d", &a, &b, &c);
    int total = a+b+c;
    printf("%d", total);
    return total;
}
```

```
4a. 29 int numbers[5] = \{1, 2, 3, 4, 5\};
```

```
4b. 31 int *ptr;
```

```
4c. 33 ptr = &numbers[0];
```

```
4f.1. 19 (*ptr + 1) == &numbers[1];
```

- 4f.2. 21 *&numbers[1] = 2;
- 4f.3. 23 *ptr = &numbers[1];
- 4f.4. 25 ptr = 1;

5a. no error

5b. should use pointer (*) since it refers to an array.

5c. xp is not an array, thus the utilization of [] is invalid.

5d.

III. APPLICATION

- 1. https://github.com/mackkk-n/CMSC-21-Lecture-/blob/master/Long%20Exam%202/LE2_Anagrams.c
- 2. https://github.com/mackkk-n/CMSC-21-Lecture- /blob/master/Long%20Exam%202/LE2 Pointers Anagrams.c