```
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Part I.
    1. True
    2. True
    3. False
   4. True
    5. True
    6. False
    7. False
    8. False
   9. False
    10. True
Part II.
    1. x = 1;
        while (x \le 10)\{x++;\} //Add opening brace
    2. for (int y = 1; y != 10; y +=1){
               printf("%f\n",y/10.0); //Reconstruct the whole loop to use int instead of double
    3. switch (n) {
        case 1:
               printf("The number is 1");
               break; //Add a break
        case 2:
               printf ("The number is 2");
               break;
        default:
                printf ("The number is not 1 or 2");
                break;
       }
    4. int n = 1; #Add data type
```

Part III.

}

- 1. Accessing the memory address of an uninitialized variable results getting the garbage or leftover data in that specific address and using it as value.
- 2. The main function uses the return statement to determine the status of the program execution. Not having a return statement will not do anything but at the same time, will not show if the program has completed successfully or not as it will default to 0.
- 3. %i specifies integers while %d specifies signed decimals.

while (n <= 10) { //Include 10 in condition

printf("%d ", n++);

4. a = 10, b = 5, c = 0.300000

```
5. a = 12.300000, b = 0.6, c = 45

6. a. (a*b)-(c*d)+e

b. ((a/b)%c)/d

c. (((-a)-b)+c)-(+d)

d. ((a*(-b))/c)-d

7. for (j;j>0;j/=2)
```

Part IV

8.

- a. The output is *****>>>><<<. The lack of parentheses and indentation can easily confuse the programmer on how conditional statements are nested.
- b. Modify the code such that it produces the following outputs (a = 2 and b = 3)

i.

```
iii.
                 #include <stdio.h>
     2345678910
               □ int main(void){
                        int a = 2, b = 3;
if (b == 3){
    if (a == 2)
        printf("
                                                  ″****¥¥n″
                               else{
                                     printf( "----¥n"
printf( ">>>>>¥n"
     11
                                     ″̈<<<<¥n″);
     12
13
                        printf(
     14
     15
                        return 0;
     16
     17
```

9.

```
#include<stdio.h>
#include<math.h>

int main(void)

int num;
float temp=1.0, root, tol = 0.00001;

// Input
printf("Enter the number:");
scanf("%d", &num);

// Run program once because it fails otherwise
root = (num/temp + temp) / 2.0000;

//Loop until root-temp is lower than tolerance
while(fabs(root-temp) >= tol){
    //Calcu float main::root
    temp = root,
    root = (num/temp + temp) / 2.0000;
}

//Print output|
printf("The square root of '%d' is '%f'", num, root);
}
```