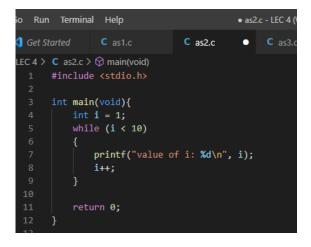
## Loop/Repetition Statements Lecture 4 Assignments

1.

2. Which one of the following statements is not equivalent to the other two (assuming that the loop bodies are the same)?

```
a) while (i < 10) {...}
b) for (; i < 10;) {...}
c) do {...} while (i < 10);</pre>
```

ANS: the for loop because it is an infinite loop.



```
dindows PowerShell
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Fry the new cross-platform PowerShell https://aka.ms/pscore6

S C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4> cd "c:
2.c -0 as2 }; if ($?) { .\as2 }
value of i: 1
value of i: 2
value of i: 3
value of i: 5
value of i: 5
value of i: 6
value of i: 6
value of i: 7
value of i: 8
value of i: 8
value of i: 9
S C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4>
```

```
as2.c - LEC 4 (Workspace) - Visual
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4> cd
2.c -o as2 }; if ($?) { .\as2 } value of i: 1
value of i: 2
value of i: 3
value of i: 4
value of i: 5
value of i: 6
value of i: 7
value of i: 8
value of i: 9
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4>
```

```
24  int main(void){
25     int i = 1;
26
27     for (; 1 < 10;)
28     {
29         printf("value of i: %d\n", i);
30     }
31     return 0;
32 }</pre>
```

```
Go Run Terminal Help
                     TERMINAL
value of i: 1
 value of i: 1
value of i: 1
value of i: 1
value of i: 1
value of i: 1
value of i: 1
value of i: 1
value of i: 1
value of i: 1
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value of i: 1
value of i: 1
```

3.

4.

```
GO RUN Terminal Help as4.c - LEC 4 (Workspace) - Visual Studio

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1
2
4
8
16
32
64
128
256
512
1824
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4> 

■
```

```
Go Run Terminal Help
                                           • as5.c - LEC 4 (Workspace) - Visual Studio Code
Get Started
                                                 C as5.c

    C calendar.c

       int main()
           int i, days, starting_day;
               printf("Enter the number of days: ");
               scanf("%d", &days);
           }while(days < 28 | days > 31);
                        printf("Enter the start day number 1=Sun, 2=Mon, ..., 7-SAT: ");
                        scanf("%d", &starting_day);
           }while(starting_day < 0 | starting_day > 7);
           printf("\nSUN\tMON\tTUE\tWED\tTHU\tFRI\tSAT\n\n");
            for(i = 1; i <= days + starting_day - 1; i++)
               if(i < starting_day)</pre>
                   printf(" \t");
                   printf("%d\t", i - starting_day + 1);
               if((i % 7) == 0)
                   printf("\n");
```

```
Go Run Terminal Help
                                                 • as5.c - LEC 4 (Workspace) - Visua
                      TERMINAL
 Windows PowerShell
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 Try the new cross-platform PowerShell https://aka.ms/pscore6
 PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4> cd
 5.c -o as5 }; if ($?) { .\as5 }
Enter the number of days: 31
 Enter the start day number 1=Sun, 2=Mon, ..., 7-SAT: 3
                  TUE
 SUN
         MON
                          WED
                                   THU
                                                    SAT
                                   10
                                   17
                                            18
                                                    19
 20
 27
         28
                  29
                           30
 PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\LEC 4>
```

Github link: <a href="https://github.com/Maxinne02/Maxinne-2ahilig/tree/main/CMSC21/Lecture%204/Assignments">https://github.com/Maxinne02/Maxinne-2ahilig/tree/main/CMSC21/Lecture%204/Assignments</a>