

Quiz 3

10 points

Student Name: _____

"Being a student of a higher standard, I pledge to embody the principles of academic integrity."

Student Signature: _____

1. (2 pts) When this symbol is placed **in front of a pointer variable**, it returns the actual variable content (dereferences the pointer):

- a. ~~ampersand (&)~~
 b. ~~conditional operator~~
 c. ~~semicolon (;)~~
 d. asterisk (*)

2. (2 pts) What is wrong with the following C code?

```
#include <stdio.h>
int arr[10] missing semicolon
int i;
for(i=0; i <= 10; i++) Out of boundry index, when i = 10, indices go from 0 to 9 for array "arr"
{
    arr[i] = 1;
}
```

3. (3 pts) Step through the following code segment and select the correct output:

```
int nNumber = 2;
while (nNumber <= 10)
{
    Step through the code...
    printf("%d ", nNumber++);
    nNumber++;
}
nNumber--;
```

A)	5 6 7 8 9 10
B)	3 4 5 6 7 8 9
C)	1 2 3 4 5 6 7 8 9
D)	2 4 6 8 10
E)	None of these

4. (3 pts) What is the output of the following segment of code if 5 is input by the user when asked to enter a number ? (Hint: Remember the behavior of **switch** without the **break** statement).

```
int nNum = 0;
int nTotal = 0;
printf("Enter a number from 1 to 10: ");
scanf("%d", &nNum);
switch (nNum)
{
    case 2: nTotal = 5;
    case 3: nTotal = 10;
    case 4: nTotal = nTotal + 4;
    case 5: nTotal = nTotal + 6;
    case 6: nTotal = nTotal + 10;
    default: nTotal = nTotal + 12;
}
printf("%d \n", nTotal);
```

Because we are missing the break statements after cases, the first case that matches is 5, and the switch "falls through" because no breaks..