## **CS 211**

## QUIZ 2

(1) Here is a code snippet. What is the data type of the test variable that would occupy where the question marks are?

```
double realNum = 900.0;
???? test = & & realNum;
desphere (pir)
desphere (bain to value)
desphere (back to par)
```

Here is a snippet of code. What will be printed to the command line?

```
int number = 384;
int* pointer0 = &number; ___ ptr to numba;
int* pointer1 = &number; ___ ptr to number
*pointer0 = 307; ___ changed number value 737
printf("%d\n", *pointer1); ___ proses Term number value
uill pour out 307
```

You compile the following piece of code on a little-endian machine that encodes integers as four bytes.

What does it print out?

int main() {
 unsigned int number = 100000;
 unsigned int\* pointer = 6number;
 unsigned int\* pointer = 6number;
 unsigned int\* char\_pointer = (unsigned char\*) pointer;
 printf ("%d\n", \*(char\_pointer-1));
 return 0;
}

```
#include <stdio.h>
int main() {
    int size = 4;
    int a [size];
    a[0]=5;
    a[1]=6;
    a[2]=7;
    a[3]=8;
    printf( "%d %d\n", *(a+2), a[1] );
```

(1) What is the output of C Program?

#include <stdio.h>

int main() {

int a[]; 
has to be declared as mrasus;

a[4] = {1,2,3,4}; 
printf("%d\n", a[0]);

7,6

What will be the output of the program (which has unconventional use of array syntax)?

Given an int\* arr, do the following statements

will puin four 30,000

(4) refer to different things?

```
| 100,000 x 2 = 0 | 12 x 2 = 0
```

1 % 2 =

(7) What would be the equivalent pointer expression for referring the array element a [i][j][k][l]?

781 1.2 = 1

- $\bigcirc$  ((((a+i)+j)+k)+l)
- (((a+i)+j)+k+l)
- ((a+i)+j+k+l)
- oren by 1, j, k and reformes the data with

Prior to using a pointer variable, it should be

- Declared
- None of these
- Both declared and initalized
- Initialized