CS 161, Lecture 22: Exam II Review – 5 March 2018
Week 6

- What symbol is used to signify that a parameter is a reference parameter?
- Call-by-reference parameters are passed
  - a) nothing
  - b) the actual argument.
  - c) the value in the actual argument.
  - d) the address of the argument.
- If you need a function to get both the number of items and the cost per item from a user, which would be a good function declaration to use?
  - a) int, float getData();
  - b) int getData(float cost);
  - c) void getData(int count, float cost);
  - d) void getData(int & count, float & cost);
Week 6 Continued

• True or False: If p1 and p2 are both pointers that point to integers in memory, the condition p1==p2 will be true if the values that are in those memory locations are the same.

• Even though pointers point to addresses which are integers, you can not assign an integer to a pointer variable.

• Declare a pointer variable named ptr to an integer.
Week 6 Continued

• In the statement `cout << *p1;`, the * is called the ________________

• What is the output of the following code fragment?
  ```cpp
  int v1=2, v2=-1, *p1, *p2;
  p1 = & v1;
  p2 = & v2;
  p2 = p1;
  cout << *p2 << endl;
  ```
  a) 2
  b) -1
  c) -2
  d) 1
What is wrong with the following code?

```c
int fact(int n) {
    return n * fact(n-1);}
fact(4);
```

a) The function is name wrong
b) There is not a base case to stop the function from running
c) The function will never execute
d) Nothing
Week 7

• In which case would you consider using a dynamic array?
  • If the array is small, and the size is known before the program runs.
  • If the program needs to get the size of the array from the user
  • If the array size is big, but known at compile time
  • You should always use a dynamic array

• Which of the following correctly declares a dynamic array of strings?
  a) p1 = new string(13);
  b) p1 = new string[];
  c) p1 = new string[13];
  d) p1 = new stringArray(13);
Week 7 Continued

• Write the code to declare a two dimension array of integers with 10 rows and 20 columns.

• Given an array named scores with 25 elements, what is the correct way to access the 25\textsuperscript{th} element?
  
  a) scores+25  
  b) scores[24]  
  c) scores[25]  
  d) scores[last]
Week 7 Continued

• Which of the following function declarations will accept the following two-dimension array?

```c
int pages[10][30];
```

a) `void f1(int pages[][], int size);`
b) `void f1(int pages[][30], int size);`
c) `void f1(int pages[10][][], int size);`
d) `void f1(int& pages, int size);`
Week 7 Continued

• Which of the following will read values from the keyboard into the array? (Assume the size of the array is SIZE).
  a) cin >> array;
  b) cin >> array[];
  c) cin >> array[SIZE];
  d) for(i=0; i<SIZE; i++)
      cin >> array[i];
Week 8

- Write the code which matches the following picture.
Week 8 Continued

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Week 8 Continued

• What are command line arguments?

• What is the difference between C-strings and C++ strings?