CISS240: Introduction to Programming Quiz q1904

Name: _	Score:	
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This is a closed-book, no C++ compiler, 2-minute quiz.

Q1. The following program does not run. Insert one statement to correct the problem.

```
#include <iostream>
// insert statement here
int main()
{
    std::cout << sum(5, 10, 1) << std::endl;
    return 0;
}
int sum(int start, int end, int step)
{
    int s = 0;
    for (int i = start; i <= end; i += step)
    {
        s += i;
    }
    return s;
}</pre>
```

Q2. The following program does not run. Insert one statement to correct the problem.

```
#include <iostream>
// insert statement here
int main()
{
    int i, j;
    std::cin >> i >> j;
    swap(i, j);
    std::cout << i << ' ' << j << '\n';
    return 0;
}

void swap(int & x, int & y)
{
    int t = x;
    x = y;
    y = t;
}</pre>
```

- Q3. The function play_audio() plays an audio file. The parameters are:
 - filename: a C-string that is the name of the audio file to be loaded.
 - track_number: an integer. 0 is the first track, 1 is the second track, etc.
 - repeat: a boolean.

The function returns 0 if there are no errors, returns -1 if the file cannot be found using the filename, and returns -2 if the track_number is not found. Write down the prototype of this function.

Answer:

- Q4. The function copy_array() copies the values of an array to another. The parameters are:
 - x: the target integer array.
 - x_length: an integer reference variable.
 - y: the source integer array
 - y_length: an integer variable.

When you call $copy_array(x, x_length, y, y_length)$ the values $y[0],...,y[y_length - 1]$ are copied to $x[0],...,x[y_length - 1]$ (respectively) and x_length is set to y_length . Write down the prototype of this function.

Answer:

Q5. What is a suitable prototype for array_equals() that compares the values of two

integer arrays x and y from returns true when $x[0],,x[n-1]$ and $y[0],,y[n-1]$
are the same (respectively), and false otherwise.
Answer: