

Worksheet #12

CS 1405

Instructor: Garth O. Sorenson

Name: _____

Score: _____

1. What is an array?
2. What are the valid subscripts for a four-element array of doubles?
3. What is the difference between an array's size declarator and a subscript?
4. What is "array bounds checking"?
5. Write a C++ statement to define an array of 15 double precision floating-point numbers called *reals*.
6. Write a C++ statement to define a 10-element array of integers called *ages* initialized with the values 5, 7, 9, 14, 15, 17, 18, 19, 21, and 23.

7. What output is displayed by the following program? (You will need to consult an ASCII table.)

```
#include <iostream>
using namespace std;

int main()
{
    int i;
    char ascii[10] = {'_', 57, 'a', '.', 122,
                    'Q', '1', '*', 53, '4'};

    for (i = 0; i < 10; i++)
        cout << ascii[i] << " ";

    cout << endl;
    cout << ascii[ascii[7] - '!'] << endl;
    cout << ascii['!' - 28] << endl;
    cout << ascii[i - 5] << endl;
    cout << ascii[1] - ascii[8] << endl;
    cout << ascii[--i] << endl;
    cout << ascii[2]++ << endl;
    cout << ++ascii[2] << endl;

    return 0;
}
```