

CSE 202, Winter 2018: Quiz 3

1. (1 point) What are the subobjects of an array called?

Solution: Elements

2. (1 point) What kind of C++ entity is used to initialize an array?

Solution: Initializer list

3. (3 points) Name three member functions that `std::string` and all instantiated types of `std::vector` have in common.

Solution: empty, size, clear

4. (5 points) Create a C++ program that reads all characters from standard input and displays each of them in uppercase.

Solution:

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

int main()
{
    char c;

    while (cin.get(c))
        cout.put(toupper(c));
    return 0;
}
```

5. (5 points) Create a C++ program that reads all lines from standard input and displays each line with a line number added.

Solution:

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

int main()
{
    size_t count = 0;
    string line;

    while (getline(cin, line))
        cout << ++count << '\t' << line << endl;
    return 0;
}
```