

CSE 202, Winter 2018: Quiz 6

1. (2 points) Suppose there exists an empty `vector<string> v` declared in the body of `int main(int argc, char* argv[])`. Write one C++ statement that inserts all the elements from `argv` into `v`. Do not use a loop.

Solution:

```
v.insert(v.end(), argv, argv + argc);  
// or  
v.insert(v.end(), &argv[0], &argv[argc]);
```

2. (3 points) Write 3 C++ statements that each demonstrate a different way to erase all elements from a `vector<string>` named `v`.

Solution:

```
v.clear();  
v.erase(v.begin(), v.end());  
v.resize(0);  
v = vector<string>();
```

3. (3 points) What C++ statement has the same effect as `m["water"] = 1.25`, where `m` is declared as `map<string, double>`?

Solution:

```
m.insert(make_pair("water", 1.25));  
// or  
m.insert(pair<string, double>("water", 1.25));
```

4. (4 points) Write C++ code to display all the key-value pairs in a `map<string, double>` named `m`.

Solution:

```
for (map<string, double>::iterator it = m.begin(); it != m.end(); ++it)  
    cout << it->first << ' -> ' << it->second << endl;
```