

[2\*] 1 Given a C-style string, determine whether it is a palindrome. Determine whether an initial sequence of the first three words in the string is a palindrome. Note: Use iterators rather than subscription operators.

[2\*] 2. Implement a template function that merges two sorted containers. Do not assume anything about the type of containers, in other words, use appropriate iterators.

[2\*] 3. What is seriously wrong with this function?

```
void duplicate(vector<string& v) // not the way to do it
{
    for (auto p = v.begin(); p!=v.end(); ++v)
        v.insert(p,*p);
}
```

Outline the possible behavior of `duplicate_elements()` for a `vector<string>` with the three elements *don't do this*.