COMP 1123 Lab 3

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Lab Work

Assume that you have a student list of this class which list consists of only
student names. Your task is sorting the given list by dictionary order, sorting
operation must be realized using the **bubble sort algorithm**. Additionally,
this list implementation should be written using a **two-dimensional char array**.

Bubble Sort Algorithm

```
1   function swap(a, b)
2       // Fill own your own!
3   end function
4
5   function compare(a, b)
6       // Compare function should be implemented
7       //     to realize the sorting criteria.
8       // For example, elements in a are strings and
9       //     they are to be sorted in dictionary order.
10      // strcmp function can be used in place
11      //     of compare function.
12  end function
13
14  function bubble_sort(a, n)
15      while n != 0
16          high = 0
17          for i=0 to n-2 incremented by 1
18              if compare(a[i], a[i+1]) > 0 then
19                  swap(a[i], a[i+1])
20                  high = i+1
21              end if
22          end for
23          n = high
24      end while
25  end function
```