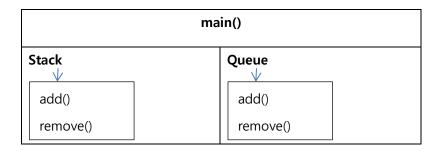
# Mod2 (Simple Testing plan and Test)

# Woohyuk Yang

yangwo@oregonstate.edu

## **X**Test Plan and Testing Result



I illustrated the structure of the program to test the program how exactly it works with my intention.

### 1. Stack like structure testing plan and test

As stack structure is FILO(First in, Last out). So I planned to test adding few characters. and to check out it is added well and removed well. I planned to test printing characters in an order. So my intention was when I add 'a'. 'b', 'c', and 'd' in an order. And stack structure is FILO structure so I guessed if I remove 4 characters and print it respectively, the program would print 'd', 'c', 'b', and 'a', which is in reversed way.

```
/* stack structure test*/
    stack.add('a');
    stack.add('b');
    stack.add('c');
    stack.add('d');

cout << stack.remove() << endl;
    cout <<
```

Example code above shows that the program worked exactly as I intended.

I also tested when the stack is empty. When stack is empty, remove function can not remove a chracter

```
stack structure test*/
 stack.add(
                                                  lip3 ~/cs162/module/mod2 1 165% Mod2
 stack.add('b');
 stack.add('c
 stack.add('d');
      << stack.remove()
      << stack.remove()
                            endl:
     << stack.remove()
                            endl;
                                                 The stack is empty.
     << stack.remove() << endl;
 cout
                         << endl;
     << stack.remove()
 cout
                                                 The stack is empty.
 cout << stack.remove()
                         << endl:
```

I removed 6 times as above after adding only 4 characters. So the result is like the one on the right above. The program prints out "The stack is empty." Because I only added 4 letters but tried to remove 6 letters.

#### 2. Queue like structure testing plan and test

As queue structure is FIFO(First in, First out). So I planned to test adding few characters. and to check out it is added well and removed well. I planned to test printing characters in an order. So my intention was when I add 'a'. 'b', 'c', and 'd' in an order. And queue structure is FIFO structure so I guessed if I remove 4 characters and print it respectively, the program would print 'a', 'b', 'c', and 'd', which is in an order I added to the queue before, which is different from FILO; stack.

```
/* queue structure test*/
   queue.add('a');
   queue.add('b');
   queue.add('c');
   queue.add('d');

cout << queue.remove()<< endl;
   cout << queue.remove()</pre>
```

Example code above shows that the program worked exactly as I intended.

I also tested when the queue is empty. When queue is empty, remove function can not remove a chracter

```
/* queue structure test*/
   queue.add('a');
   queue.add('b');
   queue.add('c');
   queue.add('d');

cout << queue.remove()<< endl;
   cout << queue.remove()</pre>
```

I removed 6 times as above after adding only 4 characters. So the result is like the one on the right above. The program prints out "The queue is empty." Because I only added 4 letters but tried to remove 6 letters.