

# Initial Errors

```
rachelj3@DESKTOP-KA0QF3E: /mnt/c/users/rache/onedrive/documents/cpts_223/MA_1
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents$ cd cpts 223/
-bash: cd: too many arguments
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents$ cd cpts223/
-bash: cd: cpts223/: No such file or directory
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents$ cd cpts_223/
-bash: cd: cpts_223/: No such file or directory
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents$ cd cpts_223/
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223$ pwd
/mnt/c/users/rache/onedrive/documents/cpts_223
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223$ ls
MA_1
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223$ cd MA_1/
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/MA_1$ ls
main.cpp
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/MA_1$ g++ main.cpp -Wall -o main
main.cpp:12:1: error: new types may not be defined in a return type
   12 | class queue
      | ^~~~~~
main.cpp:12:1: note: (perhaps a semicolon is missing after the definition of 'queue')
main.cpp:12:1: error: return type specification for constructor invalid
main.cpp: In member function 'void queue::dequeue()':
main.cpp:59:24: error: invalid operands of types 'const char [10]' and 'int' to binary 'operator<<'
   59 |     cout < "Removing " << arr[front] << '\n';
      |                      ^~ ^~~~~~
      |                      |
      |          const char [10]          int
main.cpp: In member function 'void queue::enqueue(int)':
main.cpp:69:9: error: 'isFul' was not declared in this scope; did you mean 'isFull'?
   69 |     if (isFul())
      |         ^~~~~~
      |         isFull
main.cpp: In member function 'int queue::peek()':
main.cpp:88:16: error: 'numeric_limits' was not declared in this scope
   88 |     return numeric_limits<int>::min();
      |            ^~~~~~
main.cpp:88:31: error: expected primary-expression before 'int'
   88 |     return numeric_limits<int>::min();
      |                        ^~~~
main.cpp:88:31: error: expected ';' before 'int'
   88 |     return numeric_limits<int>::min();
      |                        ^~~~~~
      |                        ;
main.cpp:88:34: error: expected unqualified-id before '>' token
   88 |     return numeric_limits<int>::min();
      |                        ^
main.cpp: In member function 'bool queue::isFull()':
main.cpp:108:19: error: lvalue required as left operand of assignment
  108 |     return (size()-1 = capacity);
      |            ~~~~~~^~
rachelj3@DESKTOP-KA0QF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/MA_1$
```

## Debugging test functions

```
1 // #pragma once
2 #include "testQueue.h"
3
4
5 void testSize(void)
6 {
7     int testSize = 5;
8     queue tester(testSize);
9     if (tester.size() == testSize)
10     {
11         cout << "Size test has passed" << endl;
12     }
13     else
14     {
15         cout << "Size test has failed" << endl;
16     }
17 }
18
19 void testIsEmpty(void)
20 {
21     bool emptyTester;
22     queue tester(3);
```

```
1 | #pragma once
rachelj3@DESKTOP-KAOQF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/ma_1$ ls
CMakeLists.txt  a.out  main.cpp  queue.h  testQueue.cpp  testQueue.h.gch
InitialErrors.JPG  main  queue.cpp  queue.h.gch  testQueue.h
rachelj3@DESKTOP-KAOQF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/ma_1$ ./main
Size test has failed
Is Empty test has failed
Inserting 54
Inserting 55
Inserting 56
Is Full test has passed
Removing 1477363128
Dequeue Test on Empty has passed
Inserting 54
Inserting 55
Inserting 56
Removing 1
Dequeue test on Full has failed
Inserting 55
Enqueue test on Empty has failed
Inserting 54
Inserting 55
Enqueue test on not empty has failed
Peek test on empty has passed
Inserting 54
Inserting 55
Inserting 56
Peek test on full has failed
rachelj3@DESKTOP-KAOQF3E:/mnt/c/users/rache/onedrive/documents/cpts_223/ma_1$
```

## Errors after Initial Tests