

MA1

Sunday, September 17, 2023 11:55 PM

```
root@DESKTOP-NABIC: ~/MA1 X + v
root@DESKTOP-NABIC:~# ls
223PA1 CPTS-223-Examples MA1 snap
root@DESKTOP-NABIC:~# cd MA1
root@DESKTOP-NABIC:~/MA1# 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: 'isFull' was not declared in this scope; did you mean 'isFull'?
   69 | if (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);
      |             ^~~~~~
root@DESKTOP-NABIC:~/MA1#
```

```
413 void testQueue::testpeek()
414 {
415     cout << "Case 1:" << endl;
416     queue* newqueue = new queue(5);
417
418     newqueue->enqueue(1);
419     newqueue->enqueue(2);
420     newqueue->enqueue(3);
421     newqueue->enqueue(4);
422     newqueue->enqueue(5);
423
424     int result = newqueue->peek();
425
426     cout << "Expected result: peek number is 1. " << result << " is returned" << endl;
427
428     if (result == 1)
429     {
430         cout << "Result: peek number is 1. 1 is returned. Pass" << endl;
431     }
432     else
433     {
434         cout << "Result: peek number is not 1. 1 is not returned. Fail" << endl;
435     }
436
437     cout << "Case 2:" << endl;
438     queue* newqueue2 = new queue(1);
439
440     int result1 = newqueue2->peek();
441
442     cout << "Expected result: underflow error. -999 is returned" << endl;
443
444     if (result1 == -999)
445     {
446         cout << "Result: underflow error. -999 is returned. Pass" << endl;
447     }
```