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-- Detecting C compile features
-- Detecting C compile features - done
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /Library/Developer/CommandLineTools/usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done (0.5s)
-- Generating done (0.0s)
-- Build files have been written to: /Users/willowzuvich/desktop/CPTS 223/MA1/build
willowzuvich@Willows-MacBook-Pro MA1 % cmake --build build
[ 58%] Building CXX object CMakeFiles/MA1.dir/main.cpp.o
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:12:7: error: 'queue' cannot be defined in the result type of a function
class queue
      ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:33:8: error: constructor cannot have a return type
queue::queue(int size)
      ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:35:5: error: use of undeclared identifier 'arr'
    arr = new int[size];
    ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:35:19: error: use of undeclared identifier 'size'
    arr = new int[size];
                  ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:36:5: error: use of undeclared identifier 'capacity'
    capacity = size;
    ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:36:16: error: use of undeclared identifier 'size'
    capacity = size;
                ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:37:5: error: use of undeclared identifier 'front'
    front = 0;
    ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:38:5: error: use of undeclared identifier 'rear'
    rear = -1;
    ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:39:5: error: reference to overloaded function could not be resolved; did you mean to call it?
    count = 0;
    ^
/Library/Developer/CommandLineTools/SDKs/MacOSX13.3.sdk/usr/include/c++/v1/_algorithm/count.h:25:5: note: possible target for call
count(_InputIterator __first, _InputIterator __last, const _Tp& __value) {
    ^
/Library/Developer/CommandLineTools/SDKs/MacOSX13.3.sdk/usr/include/c++/v1/_bit_reference/330:1: note: possible target for call
count(_bit_iterator_Cp, _isConst> __first, _bit_iterator_Cp, _isConst> __last, const _Tp& __value)
    ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:59:24: error: invalid operands to binary expression ('const char[10]' and 'int')
    cout < "Removing " << arr[front] << '\n';
                        ^ ~~~~~
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:69:9: error: use of undeclared identifier 'isFull'; did you mean 'isFull'?
    if (isFull())
        ^~~~~~
        isFull
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:29:10: note: 'isFull' declared here
    bool isFull();
        ^
/Users/willowzuvich/desktop/CPTS 223/MA1/main.cpp:108:22: error: expression is not assignable
    return (size()-1 == capacity);
           ~~~~~~
12 errors generated.
make[2]: *** [CMakeFiles/MA1.dir/main.cpp.o] Error 1
make[1]: *** [CMakeFiles/MA1.dir/all] Error 2
make: *** [all] Error 2
willowzuvich@Willows-MacBook-Pro MA1 %

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```

// queue.h
// Utility function to return front element in the queue
inline int queue::peek()
{
    if (isEmpty())
    {
        cout << "UnderFlow\nProgram Terminated\n";
        return numeric_limits<int>::min();
    }
    return arr[rear];
}

// Utility function to return the size of the queue
inline int queue::size()
{
    return count + 1;
}

// Utility function to check if the queue is empty or not
inline bool queue::isEmpty()
{
    return (size() == 0);
}

// Utility function to check if the queue is full or not
inline bool queue::isFull()
{
    return (size()-1 == capacity);
}

#endif
queue::peek

```