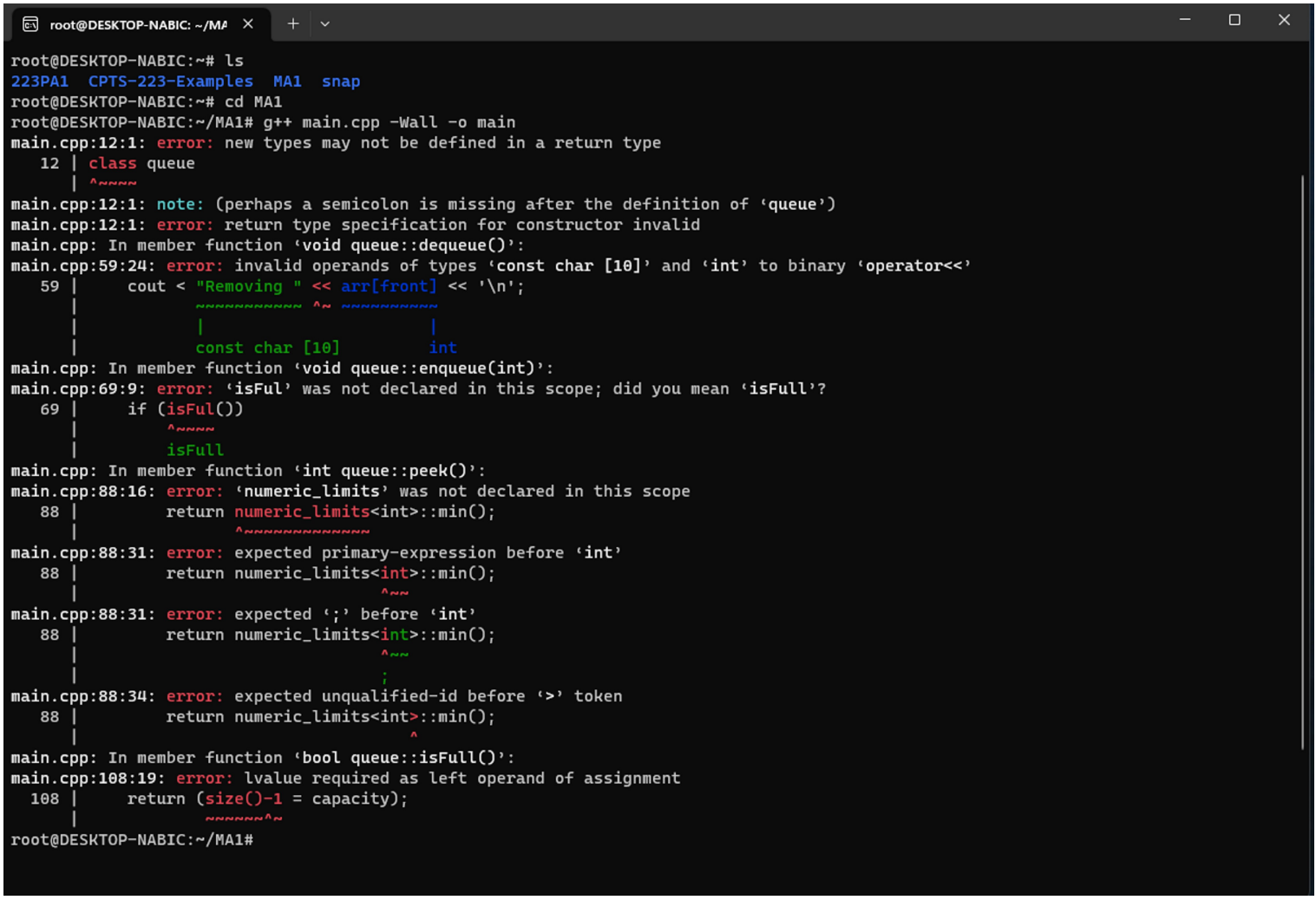
MA1

Sunday, September 17, 2023 11:55 PM



```
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      }
```