Study Quiz #6

1.   What is the output of the program below?

```
void DivideByZero()                    int main()
{                                      {
  cout << "Line 6" << endl;              cout << "Line 1" << endl;
  int a = 5, z = 0;                      try
  if (z == 0)                            {
    throw "Divide by 0";                   cout << "Line 2" << endl;
  int b = a / z;                           DivideByZero();
  cout << "Line 7" << endl;                cout << "Line 4" << endl;
}                                        }
                                         catch (const char *message)
                                         {
                                           cout << message << endl;
                                         }
                                         cout << "Line 5" << endl;
                                         return 0;
                                       }
```

2.   For each of the following, if the problem can be handled with C++ exceptions write **YES.** If it can't be handled by an exception, write **NO.**

   a)   _____ Attempts to divide by zero

   b)   _____ A missing semi-colon at the end of a statement

   c)   _____ Taking the square root of –345.26

   d)   _____ Misspelled C++ keywords

   e)   _____ An invalid array subscript in a user-defined object

3.   For each of the following operations, determine the time required to perform the operation *in the worst case*. If the time is Linear, write **L**. If the time is Constant, write **C**. If the time is Neither Constant nor Linear, write **N**.

   a)   _____ Inserting an element at the front of an array.

   b)   _____ Inserting an element at the front of a linked list.

   c)   _____ Finding the Nth element in an array

   d)   _____ Finding the Nth element in a linked list.