

# Chapter 2

## C++ Specific Stuff

**Exercise 2.1 [String]** *Suppose that the class String has been implemented meeting all the rules mentioned in this section. For the following code, identify any call to a constructor, destructor, or overloaded operator and define exactly, which constructor is called:*

```
int main( int argc, char* argv[] )
{
    String s1, s2("some text");
    s1 = "new text";
    String* s3 = new String(" ");
    String s4 = s2;
    delete s3;
    s1[5] = s2[7];
}
```

**Exercise 2.2 [Array]** *Declare and define a complete generic template class Array, that meets all the rules formulated in this section to make a C++ class safe.*

*Insert exceptions, where necessary.*

*Implement all overloaded operators that make sense for a class Array (included stream operators).*