**Answer the questions in Exercise A in the following table and post it into the D2L**

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| **Program output and its order** | **Your explanation (why and where is the cause for this output)** |
| **constructor with int argument is called.** | it is called at line 12 in exAmain. The statement, Mystring c = 3 is interpreted by the compiler as a call to the constructor Mystring::Mystring(int n). |
| **default constructor is called.**  **default constructor is called.** | Both default constructors are called at line 18 in exAmain. The statement Mystring x[2] creates a 2 element array “x” and then calls the default constructor for each element in x. |
| **constructor with char\* argument is called.** | Called at line 22 in exAmain. The statement, Mystring \*z = new Mystring("4"); is interpreted by the compiler as a call to the constructor Mystring::Mystring(const char \*s). |
| **copy constructor is called.**  **copy constructor is called.** | Called at line 24 in exAmain. The copy constructor is called since objects are being copied into the append function as arguments. |
| **destructor is called.**  **destructor is called.** | Called at line 24 in exAmain. The destructor is called since the arguments for the append function are going out of scope when the function finishes and as such the destructor is automatically called on. |
| **copy constructor is called.** | Called at line 26 in exAmain. The statement, Mystring mars = x[0]; is interpreted by the compiler as a call to the copy constructor Mystring::Mystring(const Mystring &source). |
| **assignment operator called.** | Called at line 28 in exAmain. The statement, x[1] = x[0]; is interpreted by the compiler as a call to the assignment constructor Mystring &Mystring::operator=(const Mystring &S). |
| **constructor with char\* argument is called.**  **constructor with char\* argument is called.** | First call is on line 30 and the second on line 32 in exAmain. The statements, Mystring jupiter("White"); and ar[0] = new Mystring("Yellow"); are interpreted by the compiler as a call to the constructor Mystring::Mystring(const char \*s). |
| **destructor is called.**  **destructor is called.**  **destructor is called.**  **destructor is called.**  **destructor is called.** | The first 4 destructors are called on line 35 after the closing bracket in exAmain and the last is called on line 37 in exAmain. The first 4 destructors are automatically called once the Mystring objects x[0], x[1], mars, and jupiter go out of scope. The last destructor on line 37 is called using the delete operator on ar[0]. |
| **constructor with char\* argument is called.** | Called on line 39 in exAmain. The statement, Mystring d = "Green"; is interpreted by the compiler as a call to the constructor Mystring::Mystring(const char \*s). |
| **Program terminated successfully.** | Printed out on line 41 in exAmain. This is directly printed to the terminal since cout prints to the terminal. |
| **destructor is called.**  **destructor is called** | Called at line 44 in exAmain. The program is finished as such that any object that wasn’t deleted in the program has its destructor automatically called. |