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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.** | It is called at line 18 in exAmain. The statement Mystring x[2] creates an array of 2 Mystringsm and is interpreted by the compiler as a call to the constructor Mystring::Mystring(). |
| **constructor with char\* argument is called.** | It is called at line 22 in exAmain  The statement Mystring\* z = new Mystring(“4”) is interpreted as a call to the constructor Mysrting::Mystring(const char \*s) |
| **copy constructor is called.**  **copy constructor is called.** | It is called at Line 24 in exAmain  x[0].append(\*z).append(x[1]);  is interpreted as 2 calls to the constructor  Mystring& Mystring::append(const Mystring other)  Which calls  Mystring::Mystring(const Mystring& source) |
| **destructor is called.**  **destructor is called.** | At the same place as above,  Called after append is terminated  As when append ends, it calls Mystring::~Mystring() once each time append was run |
| **copy constructor is called.** | At line 26 in exAmain  The statement Mystring mars = x[0]; is interpreted as a call to the constructor Mystring::Mystring(const Mystring& source) |
| **assignment operator called.** | At Line 28 in exAmain  The statement x[1] = x[0]; is interpreted as a call to the assignment operator  Mystring& Mystring::operator =(const Mystring& S) |
| **constructor with char\* argument is called.**  **constructor with char\* argument is called.** | It is called at line 30 and 32 in exAmain  The statements Mystring jupiter("White");  ar[0] = new Mystring ("Yellow"); is interpreted as a call to the constructor Mysrting::Mystring(const char \*s) |
| **destructor is called.**  **destructor is called.**  **destructor is called.**  **destructor is called.**  **destructor is called.** | Block of code ends, so x(2 elements), mars, and Jupiter are freed  Then line 37 in exAmain deletes ar[0]  These are interpreted as Mystring::~Mystring() |
| **constructor with char\* argument is called.** | Line 39 in exAmain  Mystring d = "Green"; is interpreted as a call to Mysrting::Mystring(const char \*s) |
| **Program terminated successfully.** | Line 41 in exAmain output this to the console |
| **destructor is called.**  **destructor is called** | Function main ends and calls the destructors, so d and c are destroyed by Mystring::~Mystring() |