

CpSc2120 - Revision 1

Find and correct the errors (1 per method/function)

```
// designed to store awardName and up to 10 nominees
#include <iostream>
using namespace std
class NomineeSet
{
    static const int MAX = 10;
    string awardName;
    string *contend;    // stored in alphabetical order
    int count;

public:
    NomineeSet( string a )
        : awardName(a); contend(new string[MAX]); count(0)
    { }

    NomineeSet~( )
    {
        delete contend;
    }

    void addCon( string newCon )
    {
        if( count==MAX ) return;
        int idx=0;
        while( idx<count && contend[idx]<newCon )
            idx++;
        if( idx<count && contend[idx]==newCon )
            return;
        for( int pos=count; pos>=idx; pos-- )
            contend[pos+1]=contend[pos];
        contend[idx]=newCon;
        count++;
    }
}
```

Handwritten annotations: A green arrow points from the constructor to the destructor. A green circle highlights the parameter 'a' in the constructor. Another green circle highlights the array 'contend' in the constructor. A third green circle highlights the loop 'for(int pos=count; pos>=idx; pos--)' in the 'addCon' method, with a '-1' written below it and an arrow pointing to the 'pos--' part of the loop.

friend ostream operator << (ostream & stream, NomineeSet
& NS) ;

};

ostream & operator << (ostream & stream, NomineeSet & NS)

{

stream << awardName << ": ";

for(int i=0; i<count; i++)

stream << contend[i] << ",";

return stream;

}

int main(int argc, char*argv[])

{

NomineeSet* N = new NomineeSet(argv[1]);

for(int i=0; i<argc-2; i++)

N->addCon(argv[i+2]);

cout << N << endl;

delete N;

}