Augmented "Comet" Database 4th field showing count of added lines

HALLEY'S 76 2037 0

WIRTANEN 5 2019 2

Methane 0.57

Water 0.34

STEPHAN-OTERNA 25 2028 1

Water 0.88

Lab 4 Mission:

- Deal with augmented database format
 - New private variable(s)
 - Modify algorithms to rd/wrt disk file
 - Added lines are multi-word.... Dang!
- Overload the >> and the << operators so that an entire comet is dealt with in a single operation. E.g. inStream >> object

Pseudo-code

- Read first 3 fields as usual
- Read new 4th field with cin >> lineCount
 - What is next char in stream at that point?
- IF lineCount > 0
 - Gobble the '\n' character
 - Create dynamic storage, string[] of necessary size
 - For each line
 - Read *line* into storage with getline()
 - Advance to next line
 - Advance to next storage

Issues:

- Got to delete [] dynamic storage when done
 - C++ automatically calls "destructor" (if there IS one)
 when object falls out of scope
 - Pointer to storage must remain unchanged, so that delete [] command will work. Use temp pointer for looping/advancing
- Want to overload >> and << to do whole Comet
 - >> MUST return a value of ifstream&
 - << MUST return a value of ofstream&</p>