



Chapter 12: Advanced File Operations

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Important Note on Random Access

- If eof is true, it must be cleared before seekg or seekp:
 - `gradeFile.clear();`
 - `gradeFile.seekg(0L, ios::beg);`
 - `// go to the beginning of the file`



Random Access Information

- `tellg` member function: return current byte position in input file
 - `long int whereAmI;`
 - `whereAmI = inData.tellg();`
- `tellp` member function: return current byte position in output file
 - `whereAmI = outData.tellp();`



12.10

Opening a File for
Both Input and Output



Opening a File for Both Input and Output

- File can be open for input and output simultaneously
- Supports updating a file:
 - read data from file into memory
 - update data
 - write data back to file
- Use `fstream` for file object definition:
 - `fstream gradeList("grades.dat", ios::in | ios::out);`
- Can also use `ios::binary` flag for binary data