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Spring 2025 CS 201

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| --- | --- | --- | --- | --- | --- |
| Input File | # of records | Time take to create the collection | Time taken to sort based on movie name | Time taken to sort based on year | Total time taken |
| dbfile1.txt | 442 | 0ms | 0ms | 0ms | 0ms |
| dbfile2.txt | 7065 | 5ms | 1ms | 6ms | 12ms |
| dbfile3.txt | 14129 | 12ms | 3ms | 15ms | 30ms |

I chose a vector of strings to store the contents of the movie names because its efficient in sorting and easy to add units without knowing the size of the vector beforehand.

A vector of pairs was used to sort the movies by year so I could correlate the year to the movie contents, allowing me to sort the elements then print them to the file.

Vectors are a dynamic type which allows the sort function to be used efficiently as opposed to linked lists or arrays.