Grading Criteria: Prog #1
Grader: Shuo Yang

1 Documentation & Coding style (30 points)

1.1 Documentation (20 points)

	Grading criteria
External Documentation (5)	Refer to Dr. McCann's Programming Style Requirements
Class Documentation (5)	Refer to Dr. McCann's Programming Style Requirements
Internal Documentation (10)	Refer to Dr. McCann's Programming Style Requirements

1.2 Coding style (10 points)

	Grading criteria
Modularity (5)	Refer to Dr. McCann's Programming Style Requirements
Naming (5)	Refer to Dr. McCann's Programming Style Requirements

2 Implementation (70 points)

	Grading criteria
Binary file (10)	created successfully
First 5 and last 5 records (15)	correctly printed out with the format given in the spec
Number of records (5)	print out the correct number
user interface (5)	wait for user to enter the search key and continuously prompt user for input
Interpolation search (35)	implemented correctly and well functioned

Correct output:

> First 5 records:
> 26300005,23,5,2.896,-47,33,11.56,356.26205,-47.55321,80,78,10.8,-16.5,7.3,7.2,18.85,0.0,0.0,24,19,1,1,0,,K,
> 26300018,23,5,16.318,-46,54,28.92,356.318,-46.90803,192,189,21.5,16.8,7.4,7.2,17.23,0.0,0.74,26,19,1,1,1,,G,
> 26300026,23,5,0.094,-46,22,22.61,356.2504,-46.372948,32,91,-29.9,-5.4,5.8,6.5,14.76,0.0,1.05,14,7,1,2,1,,K,
> 26300038,23,5,48.135,-45,29,4.81,356.45056,-45.48467,55,51,5.4,-9.5,5.8,5.6,18.3,0.0,0.0,0,16,25,1,1,0,,K,
> 26300048,23,5,49.44,-44,58,52.68,356.456,-44.9813,102,100,-29.8,-5.7,8.0,7.8,17.69,0.0,0.0,0,6,34,1,1,0,,G,
> Last 5 records:
> 59803186,23,4,38.975,-22,9,28.47,358.66238,-22.157907,86,86,-9.5,0.8,6.5,6.5,17.96,0.0,0.0,0,10,22,1,1,0,,G,
> 59803221,23,5,57.503,-26,30,58.35,358.9896,-26.516207,118,118,-65.6,24.1,8.2,8.2,18.59,0.0,0.0,0,2,24,1,1,0,,G,
> 59803228,23,6,15.396,-26,15,43.92,359.06415,-26.2622,510,141,34.3,32.0,11.5,11.5,18.52,0.0,0.0,0.47,30,61,1,1,1,,G,
> 59803230,23,5,50.702,-26,7,5.9,358.96127,-26.118305,36,54,-3.0,-2.0,3.2,3.1,15.95,0.0,0.0,0.92,12,8,1,1,1,,,S
> 59803288,23,5,47.114,-22,34,50.09,358.94632,-22.580582,328,561,-22.7,15.9,9.7,9.7,18.44,0.0,0.0,1.54,23,23,1,1,1,,G,
> Total number of records: 321608