Homework 2 Analysis Report

# Introduction

The purpose of this program is to find the kth-nearest vectors to a specified vector, using the L1 Norm calculation. K, or the number of matches is specified by the user, as well as the number of processes to do the processing.

## Algorithim:

I started by reading the file into a map of filename->lineNumber, and a vector of lineNumber->vector of floats pairs.

I then sent the vector of line numbers and their floats to be processed, along with the line to be compared to.

In the processing function, shared memory is calculated and set up first. Then child processes are spawned and passed