

Intro:

this is a menu driven program for SpreadSheet

From Ground Up:

The Spread Sheets are employed by using 2 Linked lists. One for containing all Columns(called ll_carrier) which will contain head,tail pointers to the cells(called node) and contains total number of column and length of each column(which will be same for all columns. The Linked List 'node' has 4 connecting pointers(U,D,L,R) which connects a single node in direction. The main data is stored in node → val which is a 'double' datatype(we chose it because of higher its precision). Access time for Length of Column/Row is $\Theta(1)$.

Rules of management:

At any time All the columns contain same number of cells as we tried not to make any jagged data. Length of Row and column will be stored in head of ll_carrier list and will updated every time and insertion function takes place.

The project contains following files:

- def.h : contains definition of all the structures of files.
- helper.h : will contain contains some helper function.
- helper_main.h : contains all the function which help in handling main and all the functions present in it.
- insert_del.h: contains all the insert and deletion function.
- main.c : contains main
- print.h : contain function which will print all cells in some special manner
- search.h: contains search function

A guide through the program is present in README.txt.