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PROGRAMMING ASSIGNMENT 1

1)Problem Definition

In this experiment, our problem is to read the matrices and vectors and make operations according to the specified commands.

2) Methods and Solution

I could only read the files and create matrices, vectors. Also I can't write the output to the output file. So I'd appreciate it if you'd run my code like this:

./matrixman [folder_name] commands.txt

3)Functions

3.a) Main function takes parameters and sends to program function.

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matrixman.c

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3.b) Program function reads commands files and sends to other functions commands and contents.

3.c) Vecread function in commands.c reads vector files and send to createVector function.

3.d) Matread function in commands.c read matrix files and send to createMatrix function.

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3.e) CreateVecZeros function creates a zero vector with given length and name.

3.f) CreateMatZeros creates a zero matrix with given row,column and name.

3.g) CreateMatrix and CreateVector create matrices and vectors that readed from files.

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3.h) PlaceVector and placeMatrix place matrices and vectors to the structure.

3.i) newObject function creates newFile, newMatrix and newVector.

```
#include "functions.h"

//NewFiles

Files* newFiles(){

Files* files = (Files*) malloc (sizeof(Files));
files-headMat = NULL;
files-headMat = NULL;
return files;

//NewVector

//NewVector

//NewVector *newVector = (Vector *) malloc (sizeof(Vector));
newVector->next = NULL;
return newVector;

//NewMatrix

Matrix* newMat(){

Matrix* newMat(){

Matrix = newMatrix = (Matrix *) malloc (sizeof(Matrix));
newMatrix->next = NULL;
return newMatrix;
return newMatrix;
```