ALÍ ARDA ÍSENKUL CMPE 382 PROJECT #1

My Project consists of 2 part. First one is a set of simple command-line programs in order to edit a text document, second part is combine them into a single program them in various ways.

```
char *Fonksiyon;
char *Degistirilecek;
char *Aranicak;
char *BeforeAfter;
int print;
char *outFile;
char *inputFile;
int counterOrNot;
int input_number;
int start;
int end;
int threaded_or_not;
)}anaStruc;
```

I used struct type to store all data that I might need to use in methods. When I finished to add data to struct, I just need to send struct for funcCall method and it runs the needed method.

In my main method, It aims to parse the input into separate commands according to ':' and ';', for example if the input is like that: search arda -c; replace arda ayse; insert kemal -c -b arda file3.txt. It makes it separate and runs the commands as it needed (threaded or not). When it gets a command it calls void nonThread(char *string,char*file) which string is the command(search arda -c) and file is the last word(file3.txt) of sentence.

```
pvoid nonThread(char *string, char*file){
    struct InpStruct* cmd = &anaStruc;
    int num = 0;
    char string1[512];
    strcpy(string1, string);
    cmd->inputFile = file;
    char *split_input[50];
    for (int k = 0; k < 50; k++) {
        split_input[k] = (char *)malloc( size: 100* sizeof(char));
    }

    char *split= strtok(string, sep: " ");
    while (split != NULL){
        split_input[num++] = split;
        split = strtok ( str: NULL,  sep: " ");
}</pre>
```

As I said before, I split the user input into pieces and send one command in order. nonThread separates words according to the whitespace and creates Struct for current command. Then this struct sends to funcCall and funcCall calls the desired method (search,insert etc.) and program runs that way.

```
roid funcCall(struct InpStruct *cmd){
   if(strcmp(cmd->Fonksiyon,"search")==0){
      Search_in_File(cmd->Aranicak,cmd->inputFile,cmd->counterOrNot,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon,"replace")==0){
      replaceAll(cmd->Aranicak,cmd->Degistirilecek,cmd->inputFile,cmd->counterOrNot,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon,"insert")==0){
      insert(cmd->Degistirilecek,cmd->counterOrNot,cmd->BeforeAfter,cmd->Aranicak,cmd->inputFile,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon,"lineCount")==0){
      printf("%d lines in file",lineCount(cmd->inputFile));
  }else if(strcmp(cmd->Fonksiyon,"split")==0){
      split(cmd->input_number,cmd->inputFile,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon, "head")==0){
      headTailMid(cmd->Fonksiyon,cmd->start,cmd->end,cmd->inputFile,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon,"tail")==0){
      headTailMid(cmd->Fonksiyon,cmd->start,cmd->end,cmd->inputFile,cmd->outFile,cmd->print);
  }else if(strcmp(cmd->Fonksiyon,"mid")==0){
      headTailMid(cmd->Fonksiyon,cmd->start,cmd->end,cmd->inputFile,cmd->outFile,cmd->print);
  }else{printf("Wrong command!\n");}
```

funcCall gets the struct and sends its values to desired method. Purple variables are parameters for functions.

I implemented this in infinite loop, but if the user writes "quit", then the program stops running.

```
gvoid Search_in_File(char *str,char *fname,int cOrNot,char *outFile,int print) {...}
gint countWords(char *str) {...}
gvoid replaceAll(const char *oldWord, const char *newWord,char *fname,int cOrNot,char *outFile,int print) {...}
gint lineCount(char *fname){...}
gvoid split(int splitNum,char *fname,char *outFile,int print){...}
gvoid headTailMid(char *type,int start,int end, char *fname,char *outFile,int print){...}
gvoid insert(const char *insertedWord, int keyCount,const char *afterBefore,const char *targetKeyword,char *fname,char *outFile,int print) {...}
gvoid funcCall(struct InpStruct *cmd){...}
```

search <keyword> [-c] <inFile>

prints each line that contains the keyword, contols -c or > for output or count number.

• replace <targetKeyword> <sourceKeyword> [-c] <inFile>

Replace 2 words and checks for -c and > for output and count number

• insert <insertedkeyword> [-c] <-a OR -b> <targetkeyword> <inFile>

Inserts keyword after or before another Word, checks for c and > for output and count number

• lineCount <inFile>

Counts the number of lines in the input File and prints it

• split <CharacterCount> <inFile>

Split command splits the lines in the input file into multiple lines. Checks for c and > for output and count number

• head eCount> <inFile>

Prints the first "lineCount" lines in the input File

• tail count> <inFile>

Prints the last "lineCount" lines in the input File

• mid <startLine> <endLine> <inFile>

Prints the lines between "startline" and "endline" in the input File

For the second part, I implement the logic of separate combined methods includes ':',';' and '>'. When there is a '>' mark, program writes the result to the next filename of > mark. search arda > tempFile.txt file3.txt . tempFile will be created and result of search method will be written in it.

FXAMPIFS

zsh: no such file or directory: cd/Users/Arda/CLionProjects/2deneme Arda \$cd /Users/Arda/CLionProjects/2deneme Arda \$ls CMakeLists.txt cmake-build-debug Arda \$gcc main.c Arda \$./out -o out warning: this program uses gets(), which is unsafe. search komik -c > temp.txt file3.txt

For science music sport etc komik Europe uses the same vocabulary. Everyone realizes is grammar why a new common language would be desirable komik on refuse to pay expensive translators. To achieve this it would be necessary to have differ science uniform komik grammar pronunciation and more common words.

The word komik has been found 3 times.

SCALCH KOMER TO / LCMP. LAL TILES. LAL

replace komik fancy file3.txt

The European languages are members of the same family.

Their separate existence is a myth.

For science music sport etc fancy Europe uses the same vocabulary.

The languages uniform is only differ in their grammar their grammar pronunciatio n and their most common words.

Everyone realizes is grammar why a new common language would be desirable fancy one could refuse to pay expensive translators.

To achieve this it would be necessary to have differ science uniform fancy gramm ar pronunciation and more common words.

If several languages coalesce the grammar of the.

mid 3 5 > out.txt file3.txt

out.txt ~

For science music sport etc komik Europe uses the same vocabulary. The languages uniform is only differ in their grammar their grammar pronunciation and

their most common words. Everyone realizes is grammar why a new common language would be desirable komik one could refuse to pay expensive translators.

insert love -b and file3.txt

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insert crazy -a science file3.txt

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If several languages coalesce the grammar of the.

Arda \$./out

warning: this program uses gets(), which is unsafe.

replace risus risusx ; search risus -c ; insert risus -c -b here file3.txt

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If several languages coalesce the grammar of the.

Sorry, couldn't find a match.

The word risus has been found 0 timesThe European languages are members of the same family.

Their separate existence is a myth.

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If several languages coalesce the grammar of the.

Number of changed words: 0

Arda \$./out

warning: this program uses gets(), which is unsafe.

mid 2 4 ; search common -c ; insert kebab -c -a is : replace common arda file3.txt

Their separate existence is a myth.

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To achieve this it would be necessary to have differ science uniform komik grammar pronunciation and more common words.

The word common has been found 3 timesThe European languages are members of the same family.

Their separate exis kebabtence is kebab a myth.

For science music sport etc komik Europe uses the same vocabulary.

The languages uniform is kebab only differ in their grammar their grammar pronunciation and their most common words.

Everyone realizes is kebab grammar why a new common language would be desirable komik one could refuse to pay expensive translators.

To achieve this kebab it would be necessary to have differ science uniform komik grammar pronunciati on and more common words.

If several languages coalesce the grammar of the.

Number of changed words: 5The European languages are members of the same family.

Their separate existence is a myth.

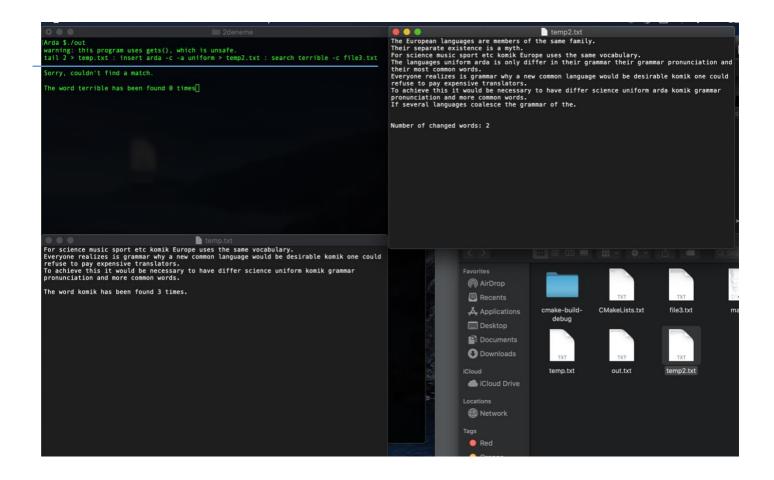
For science music sport etc komik Europe uses the same vocabulary.

The languages uniform is only differ in their grammar their grammar pronunciation and their most ard a words.

Everyone realizes is grammar why a new arda language would be desirable komik one could refuse to pay expensive translators.

To achieve this it would be necessary to have differ science uniform komik grammar pronunciation and more arda words.

If several languages coalesce the grammar of the.



I add thread methods and some declaration parts, but I couldn't worked it properly. Methods run successfully but thread part is working as ':' mark.