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Programming Project 1 – searchStr.c

Output

Text

Description automatically generated

Code:

#include <stdio.h>

#include <string.h>

int main(){

//define variables

char str[20];

char large[20];

char small[20];

//prompt user and get input

printf("Enter word: ");

gets(small);

//while it isnt 4 characters long, keep going through loop

while(strlen(str) != 4){

printf("Enter word: ");

gets(str);

//checks if it is the largest or smallest

//and sets it to be if true.

if(strcmp(str, small) < 0){

strcpy(small, str);

}

if(strcmp(str, large) > 0){

strcpy(large, str);

}

}

printf("Smallest Word: %s\n", small);

printf("Largest Word: %s\n", large);

}

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Programming Project 4 – reverseStr.c

Text

Description automatically generated

Code:

#include <stdio.h>

int main(int argc , char \*argv[]){

//for loop to iterate through array backwards

for(int i = argc - 1; i > 0; i--){

//print out each iteration

printf("%s ", argv[i]);

}

printf("\n");

}

Programming Project 5 – sumStr.c

Text

Description automatically generated

Code

#include <stdio.h>

int main(int argc , char \*argv[]){

//declare sum variable to be 0

int sum = 0;

//iterate through each element until there are none left

for(int i = 1; argv[i] != NULL; i++){

//add each element to sum

sum += atoi(argv[i]);

}

printf("Total: %d\n" , sum);

}