In The Name Of God

(Problem set - 3 )

1 - write the following functions :

1. int search ( char sentence[] , char c , int indexes[] )
2. int search ( char sentence[] , char word[] )
3. void remove\_all ( char sentence[] , char c )
4. void remove\_all ( char sentence[] , char word[] )
5. void split ( char sentence[] , char c )
6. void insert\_at ( char sentence[] , int index , char word[] )
7. Void replace ( char sentence[] , char word[] ,char replacement\_word[])

2 - There is a game called guess the number . Search for it and try to code the game . if you had any questions , please ask your graders or google .

3 - write a function that gets multiple lines of input and when the user enters “EOF” , the output would be the number of occurrence of each **word** . ( for getting input you can only use getchar() but for the output there would be no limit )

4 - write a program that gets an input from the user and reverses it and prints the output. ( we solved this question in gradery classes )

5 - write a functions that gets two numbers as input and converts the first one into the radix of second number.

Ex :

//void radix\_converter( int number , int basis ) ;

//Please give Me your Inputs : 521 , 4

//output : 521 in base 4 is = 20021

Another Ex :

//Please give Me your Inputs : 521 , 2

//output : 521 in base 2 is = 1000001001

# function A searches all occurrences of character c in a sentence and saves the indexes in the given array “ indexes “

#function B searcher the “ word “ inside a given sentence and returns the index of first alphabet of the word in that sentence. If the word didn’t exist in the given sentence , then the function shall return -1 .

# functions C & D should remove the given arguments from the given sentence and shift the remains to the right so that there would be no gap due to deletion of the wanted arguments .

# function E should split the sentence according to the given argument and prints the splitted parts .

#function F shall insert a word at the wanted index of a sentence and shifts the remainders of the sentence . for Example :

#include <stdio.h>

int main(){

char sentence [] = { “ hello my friend“ } ;

char word[] = { “ Dear” };

insert(sentence , 8 , word ) ;

return 0 ;

}

The output :

// hello my Dear friend .

#function G , searches the array and looks for the first word . if the word existed , the word would be replaced by the second one. If the wanted word was not in the sentence , the function shall do nothing .