

Problem 3: Reversing the Words of a File

Data Structures Lab (CS111)

Write a C program to read a text file (file name will be given by user) containing only English words. First your program should read each word in the file. Then, it need to reverse each word and the write those reversed words in some output file. There might be any number of spaces between two words, your program should remove duplicate spaces and keep only one space between two reversed words. For example, if the following sentence is written in the file:

“We are the students of Indian Institute of Information Technology Guwahati”

Then your output file should contain the following sentence:

“eW era stneduts fo naidnI etutitsnI fo noitamrofniT itahawuG”

Note that, you have to solve this problem using stack. You have to implement stack using array and linked list. If you solve this problem without using stack you will not get any marks.