

PROGRAMMING ASSIGNMENT 1 Dynamic Memory Management in C

Subject: - Malloc, calloc, realloc, free, file IO and string

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1 Introduction

In this assignment I am expected to write code that handles creating file, deleting file, removing a word from a file, replacing texts in a file, appending text to a file, and printing file. The point is that I have to manage memory dynamically, with functions like malloc, calloc, realloc, free.

2 Solution

I will create 2 dimensional dynamic allocated arrays which includes name of files and text of files. After any string or file operation command, I will do operation on these char arrays and after that ,update the files. These operations (create, print, remove, delete, etc) must be done while reading input to make program efficient and quick and elligible.

3 Where and How did I use Dynamic memory allocation

I have 2 arrays which is dynamically allocated for name of files and text of files.

In create function I use dynamic memory allocation to split and implement file name and text name.

In delete function I I use dynamic memory allocation to split and implement file name.

In remove function I use dynamic memory allocation to split given command and to edit the dynamic text array.

In append function I use dynamic memory allocation to split given command and to edit the dynamic text array.

In replace function I use dynamic memory allocation to split given command and to edit the dynamic text array.

In printf function I use dynamic memory allocation to split given command.