

Assignment-2

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program steps:

It dynamically allocates memory for a character buffer with an initial size of 512 characters.

It reads characters from the input file, converts lowercase letters to uppercase, and stores them in the buffer. If the buffer becomes full, it reallocates memory to accommodate more characters.

It inserts the end-of-string '\0' character following the last input character and prints the total number of input English characters.

It opens an output file named "result.txt" and writes the modified text into it using `fwrite()`.

It prints the first 800 characters of the modified text on the monitor, with 80 characters in each line.

It counts and reports the number of contiguous letters: one-character letters, two-character sequences, three-character sequences, and sequences of four or more characters.

It counts and reports the occurrences of vowels ('A', 'E', 'I', 'O', 'U') in the text.

Finally, it releases the dynamically allocated memory for the buffer.