Problem FC-10 (1 part)   *C Programming*

Part A: The C program below should count the frequency of letters in a text file and print a letter usage histogram. Fill in the body of the do-while loop to complete the program. Keep track of the number of letters encountered in NumLetters and keep a frequency count of each of the 26 letters in the LetterCount array. Only count characters that are one of the 26 letters (in either lower-case or upper-case) of the alphabet.

```c
void LetterHistogram(FILE *FP) {
    int         Char, I, NumLetters = 0;
    int         LetterCount[] = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
                                 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
                                 0, 0, 0, 0};
    int         getc(FILE *);
    do {
        Char = getc(FP);




    } while (Char != EOF);
    printf("Letter Occurrence Histogram\n");
    for (I = 0; I < 26; I++)
        printf("[%c] %5d, %4.1f\%\n", I + 'A',
                LetterCount[I],
                100.0 * LetterCount[I] / NumLetters);
```