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#include<stdio.h>
#include<string.h>
#include<stdlib.h>

char comm[100], *ptr, *args[10];
int tot;

int count(char* option, char* fname);

main()
{
    do
    {
        printf("myshell$ ");
        getcomm();
        sep_arg();
        take_action();
        printf("\n");
    } while(1);
}

sep_arg()
{
    char* token;
    tot = 0;

    token = strtok(comm, " ");
    while(token != NULL)
    {
        args[tot] = (char*)malloc(20);
        strcpy(args[tot++], token);
        token = strtok(NULL, " ");
    }
    return;
}

getcomm()
{
    int len;

    ptr = fgets(comm, 80, stdin);
    len = strlen(comm);
    comm[len-1] = '\0';
    return;
}

take_action()
{
    ptr = comm;
    if(ptr == NULL)

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        exit(0);

    if(strlen(comm) <= 1)
        return;
    else if(strcmp(args[0], "count") == 0)
        count(args[1], args[2]);
    else
    {
        printf("Command not found!");
        exit(0);
    }
}

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int count(char* option, char* fname)
{
    int ccnt, wcnt, lcnt, wflag, ch;
    FILE *fp;

    fp = fopen(fname, "r");
    if(fp == NULL)
    {
        printf("Unable to open file!");
        exit(0);
    }

    ccnt = wcnt = lcnt = wflag = 0;
    ch = fgetc(fp);

    while(ch != EOF)
    {
        ccnt++;
        if(ch == ' ' || ch == '\t')
        {
            if(wflag == 0)
            {
                wcnt++;
                wflag = 1;
            }
        }
        else if(ch == '\n')
        {
            lcnt++;
            if(wflag == 0)
            {
                wcnt++;
                wflag = 1;
            }
        }
        else
            wflag = 0;
    }
}

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        ch = fgetc(fp);
    }

    if(wflag == 0)
    {
        wcnt++;
        lcnt++;
    }

    fclose(fp);

    if(strcmp(option,"c") == 0)
        printf("\nTotal characters = %d\n", ccnt);
    else if(strcmp(option,"w") == 0)
        printf("\nTotal words = %d\n", wcnt);
    else if(strcmp(option,"l") == 0)
        printf("\nTotal lines = %d\n", lcnt);
    else
        printf("\nInvalid option!\n");
}
```