```
// calling update_table function to search for keywords
        // and update counters
        update_table(line, argc);
}
// calling display_table function to print
// keywords and counters to the display
display_table(argc);
// freeing malloc
free(line);
free (table);
```

```
return 0;
}
void init_table(int argc, char** argv) {
        int i;
        // to account for executable file
        int size = argc - 1;
        // dynamically allocation size of structure
        table = (tables *)malloc(size * sizeof(tables));
        for(i = 0; i < size; i++){
                // copying the command line arguments into the structure
                strcpy(table[i].keyword, argv[i + 1]);
                // initializing keyword count to 0
                table[i].count = 0;
        }
}
void update_table(char* line, int argc) {
        int i, size = argc - 1;
        // using strtok to split stdin lines by spaces and newline included by getline
        char *token = strtok(line, " \n");
        while(token != NULL) {
                for(i = 0; i < size; i++) {
                        // comparing tokenized line with each keyword and
                        // updating counter if match found(string compare returned 0)
                        if(strcmp(token,table[i].keyword) == 0){
                                table[i].count += 1;
                }
                // ending while loop
                token = strtok(NULL, " \n");
        }
}
void display_table(int argc) {
        int i, size = argc - 1;
        printf("\n");
        printf("Here is the number of times each keyword appears: \n");
        for(i = 0; i < size; i++){
                printf("%s: %d \n", table[i].keyword, table[i].count);
        }
}
```

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Tue Feb 11 22:58:30 2020

project1.c