

Question 1 Code:

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #include<string.h>
4  #include<ctype.h>
5  int main(){
6      //defining variables
7      char first_name[50], last_name[50];
8      char *full_name = NULL;
9      int num_letters = 0;
10
11     //asking for user input
12     printf("Whats your first name?\n");
13     scanf(" %s",first_name);
14     printf("Whats your last name?\n");
15     scanf(" %s",last_name);
16
17     //printing first and last name since nothing has to be changed
18     printf("First name: %s\n",first_name);
19     printf("Last name: %s\n",last_name);
20
21     //allocating the memory
22     full_name = (char*)malloc(sizeof(char)*(strlen(first_name) + strlen(last_name) + 1));
23
24     //Putting the stuff into the full name string
25     strcat(full_name, first_name);
26     strcat(full_name, " ");
27     strcat(full_name, last_name);
28
29     //printing full name
30     printf("Full name: %s\n",full_name);
31
32     //counting number of letters
33     for(int i = 0; i < strlen(full_name); i++){
34         if(isalpha(*(full_name + i)) != 0){
35             num_letters++;
36         }
37     }
38
39     //Printing number of letters, I know it doesnt say to do this but I did
40     printf("Number of Letters in Name: %d",num_letters);
41
42     //freeing memory
43     free(full_name);
44
45     return 0;
46 }
```

Question 1 Sample Input Output:

```
zhong@JJ-Laptop /cygdrive/c/se185/jaden_burke_quiz06
$ ./q1
Whats your first name?
Jaden
Whats your last name?
Burke
First name: Jaden
Last name: Burke
Full name: Jaden Burke
Number of Letters in Name: 10
```