# Function Parameter Passing and Return Assignments

**Mandatory**

1. Refer the code below and find the issue.

#include<stdio.h>

int \*func(void);

int main()

{

int num,\*ptr = NULL;

ptr = (int \*)func();

num = \*ptr;

return 1;

}

int \*func()

{

int local;

local = 10;

return(&local);

}

In above code is there a way(s) to return local variable address to caller?

1. Code:

A screen shot of a computer code

Description automatically generated

Output:

A black background with white text

Description automatically generated

1. Write a program with a function ***read\_extract\_characters()*** to read a string (of max length 50 characters) from user, extract the characters at odd indices, store in an other array and return to the call. Caller should be able to read and display the extracted string.

[Note : do not return a local variable in function to caller]

1. Code:

A computer screen with text and symbols

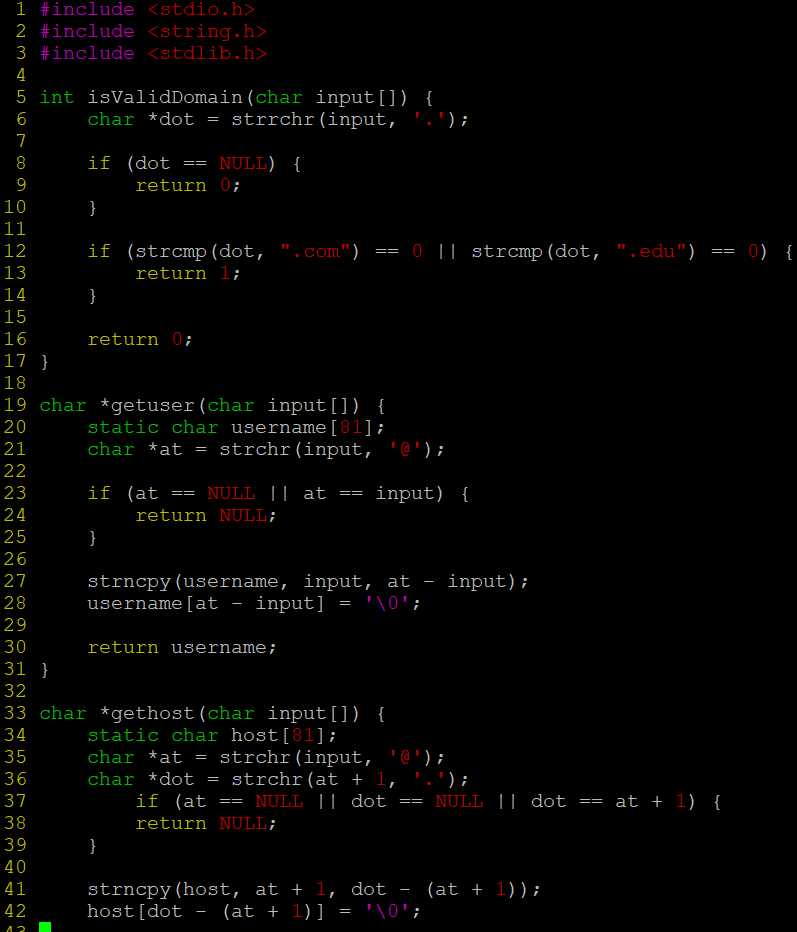
Description automatically generated

Output:

A black background with white text

Description automatically generated

1. Write below functions to extract and return the required inputs from an email id string of max length 80 characters. Program should be able to detect an invalid email id too
2. Code:



A screen shot of a computer program

Description automatically generated

A computer code on a black background

Description automatically generated

Output:

A screen shot of a computer

Description automatically generated