Submit your single source file to Canvas.

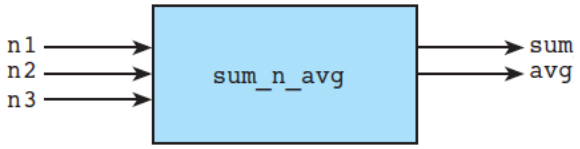
1- (50 points) The function `sum_n_avg` computes the sum and the average of three input arguments and relays its results through two output parameters.

a) Write a prototype for a function `sum_n_avg` that accepts three double-type input parameters and returns two output parameters (in the form of pointers).

b) Write the function definition for function `sum_n_avg`. The function definition is where the actual computations are performed.

c) Write a function call in `main ()` for `sum_n_avg`. The function call can look like below:

```
{
double one, two, three, sum_of_3, avg_of_3;
printf("Enter three numbers> ");
scanf("%lf%lf%lf", &one, &two, &three);
sum_n_avg(_____________________________________);
. . .
}
```



2– (50 points) The intention of this problem is to analyze a user input word, and display the letter that it starts with (book → B).

(a) Create a function prototype for a function that accepts a word less than 25 characters long, and return a character.

(b) Write the function definition for this function that evaluates the input word and returns the letter that the word starts with in *capital letter* (if it's in small letters).

(c) Create a function call in the `main` function, and use the function output to print the following message based on the input from the user. (Remember to have a command prompt in the main function requesting the user to enter any word.)

```
Computer starts with the letter C.
Summer starts with the letter S.
```

(d) Make sure to consider the case where a naughty user enters characters other than the alphabet to form a word and display a relevant message, and return null character.

```
%sb$ is not a word.
$500 is not a word.
```

(e) Have the program process words until it encounters a word beginning with the character `'#'`.

Note: Use the `ctype` library to facilitate your solution for this problem.