



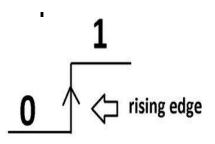


Write a C function that counts the number of rising edges(ex : change from low to high that occurs on a digital input pin).

The function will be called periodically and contains only one input which is the last reading of the port pin(ex: 0:Low, 1: High) and returns accumulated number of falling edges science the first function call

Tips:

-the value received by first call shall be considas initial pin value



Function prototype:

uncianed int rigina Edga Counter (uncianed char





Given a string, create a string made up of its last 2 letters, reversed and separated by a space.

For example: the word is "car", return "r a"

For example: the word is "APPLE", return "E L"

constraints:

1 <=Length of word <= 100

Function prototype:

char* lastLetters(char * string);





Problem solving pdf file 2 and file 3

link:

https://drive.google.com/drive/u/1/folders/17syUROfPMfiRE17I8aDbq2dy7jws-Avh

Note:

if the output required is an array you may use static local or dynamic allocation to avoid dangling ptr





1- Implementation of Stack using arrays

2- Implementation of Stack using single Linked list





1- Implementation of Queue using arrays

2- Implementation of Queue using single Linked list





leetCode problem solving, solve using stack:

link:

https://leetcode.com/problems/valid-parentheses/

you need to submit a screen shot of your code and results





leetCode problem solving, solve using queue:

link:

https://leetcode.com/problems/number-ofstudents-unable-to-eat-lunch/

you need to submit a screen shot of your code and results





Implementation of Doubly Linked list, full code as we did it in class