CCPROG1 Mock Exam 1

Mock Exam 1

For this problem, complete the template provided in the link below.
https://drive.google.com/file/d/1BnDk4fsTgAzZDwca4FYuj0VkPGBg3ebb/view?usp=sharing

Please do not go online and look for the solutions as that will defeat the point of a mock exam. This is to prepare you for the actual exam.

Note: Assume that the user will always input a small letter. No need for error checking.

isBeforeK
Complete the function isBeforeK which takes in a character and will determine if the fed character is a letter before the letter k, inclusive of k. If the character is before the letter k, the function returns a 1 result. The function returns 0 otherwise.

isVowel
Complete the function isVowel which takes in a character and will determine if the fed character is a vowel or not. If the character is a vowel, the function returns a 1 result. The function returns 0 otherwise.

toUpperCase
Complete the function is toUpperCase which takes in a character pointer with a small letter value and modifies the content of the pointer to contain a capital letter equivalent. Assume that the value fed is always a small letter. No need for checking.

isPalindrome
Complete the function isPalindrome which takes in four character parameters and determines if the input is a palindrome or not. A palindrome is a series of letters that when reversed will yield the same set of letters. An example of this is “tacocat” and “racecar”. The function will return 1 if the set of characters has a palindrome and 0 if it is not.

computePallindromeDistance

Complete the function computePallindromeDistance which will compute how far the given letters are from becoming a palindrome. The result should be a positive integer that represents the total distance between the 1st & 4th and 2nd & 3rd letters. Assume all the parameter values are capital letters.

Input	`c1st = 'A';`
	`c2nd = 'C';`
	`c3rd = 'D';`
	`c4th = 'B';`
		`c1st = 'A';`
		`c2nd = 'D';`
		`c3rd = 'A';`
		`c4th = 'B';`
			`c1st = 'B';`
			`c2nd = 'A';`
			`c3rd = 'A';`
			`c4th = 'B';`

Output	`2`	`4`	`0`

Hint: Use the abs function of stdlib.h.

Additional Instructions

- Only modify and submit the file **MockExam1Ans.c** only for this problem in the Canvas page.
- Please encode the student's name in the Author field at the top of the MockExam1Ans.c file.
- Be sure to not modify the function headers.
    - Do not add additional parameters or change the return type.
- **This deliverable will not be checked** but the submission is still requested so that the students can have a feel on how to submit the results.