QUESTION 2

c. Which of the following words is the longest:

Supercalifragilisticexpialidocious, Honorificabilitudinitatibus, or

Bababadalgharaghtakamminarronnkonn?

d. Which composer comes first in the dictionary: 'Berlioz', 'Borodin', 'Brian',

'Bartok', 'Bellini', 'Buxtehude', 'Bernstein'. Which one comes last?

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QUESTION 3

Implement function triangleArea(a,b,c) that takes as input the lengths of the 3

sides of a triangle and returns the area of the triangle. By Heron's formula, the area

of a triangle with side lengths a, b, and c is

s(s - a)(s -b)(s -c)

, where

s = (a+b+c)/2.

>>> triangleArea(2,2,2)

1.7320508075688772

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QUESTION4Write a program in C# Sharp to separate odd and even integers in separate arrays.

Go to the editor

Test Data :

Input the number of elements to be stored in the array :5

Input 5 elements in the array :

element - 0 : 25

element - 1 : 47

element - 2 : 42

element - 3 : 56

element - 4 : 32

Expected Output:

The Even elements are:

42 56 32

The Odd elements are :

25 47

Text

Description automatically generated

QUESTION 5

a. Write a function inside(x,y,x1,y1,x2,y2) that returns True or False

depending on whether the point (x,y) lies in the rectangle with lower left

corner (x1,y1) and upper right corner (x2,y2).

>>> inside(1,1,0,0,2,3)True

>>> inside(-1,-1,0,0,2,3)False

b. Use function inside() from part a. to write an expression that tests whether

the point (1,1) lies in both of the following rectangles: one with lower left

corner (0.3, 0.5) and upper right corner (1.1, 0.7) and the other with lower

left corner (0.5, 0.2) and upper right corner (1.1, 2).

Text

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