Name: Favy Last

Mov 1, 2021

Midwestern State University

Advanced Data Structures and Algorithms - Homework 3 – Fall 2021 This is an Individual Assignment

You must:

1. Print this document and solve your homework by hand (no computer solution accepted)

2. The homework MUST be solved in a clean, ordered, readable, presentable manner. Messy work will lose points, presentation is part of your grade. (For sure this will happen this time) (-5 points if not respected)

3. Add extra white pages if needed.

4. All your pages must be stapled together (-7 points if not respected)

5. Correct answers without proper explanation will not receive points.

Deliverables & Due Dates:

Scanned copy: Monday November the 1st, 2021 at 5:00 am. (OFFICIAL delivery date) Hard Copy: Tuesday November the 2nd, 2021 at class time.

BOTH MUST be submitted to get full points, Hard copy delivery without scanned copy submitted to D2L will not be accepted and a grade of zero will be assigned.

Forzy Alsoud

[Counting Sort]

O Find Yang, max, and min = 5 rang [5,726]

@ create array of Movement to count the # of appeares

V-value-mmber

a-# ag apperances in Unes

١	(
	v	5	11	33	54	69	100	213	278	367	726	Ì.
	a	T	1	1	1	1	1	1	1	1	1	
		TI	1	1	ı	1	l	J	1	ı	1	
	,		_	_								

3 add the # app. from left (L) to Right(R) Accommentively

T	V	51	111	22	54	69	100	213 ⁾	278	367	776	
v voue	١	[]	1	321	**	4.	6*/	1 Ph	821	10	10+11	1
index	1	2	3	4	5	6	17	18		1,0		J

(4) Shift commutative values to the right (R)

V4- 5	11	રર	54	69	100	२।३	278	367	726	
ind o	1.	2	3	4	5	6	7	8	9	1

6 proceed w 14 element in arrang then 6 move right to next

 $\frac{5}{100} = 13 = 22 = 11 = 64 = 5 = 726 = 367 = 278 = 69$ $\frac{5}{0} = \frac{11}{2} = \frac{22}{3} = \frac{54}{3} = \frac{69}{4} = \frac{100}{5} = \frac{213}{6} = \frac{278}{7} = \frac{367}{8} = \frac{726}{9}$

- a) (100) index is 5 then 213 index is 6 thep: 27, and index is 2 and so on
- b) add 41 to lides where & should be placed ex; 100 index 5 so you add +1 which is going to be 6.

11 22 54 69 100 213 278 367 726

11 22 54 69 100 213 278 367 726

P 367 213 7 905

FINAL AND AND 100 (267) 1 213 367 278 726

Fingl answer (3677278) 213 367 278 726

yes... 3 213 367 278 726

yes... 3 213 367 278 726