Show Notification

⬈ Part B / Criteria 3 / Criteria 3.2.2 / Student Scores   Go Back

Semester : 3	Section : A	Course code : CST201	Course Name : DATA STRUCTURES	Course Outcome Number : CO 1

Academic Year : 2022-23   Course Outcome Title : Design an algorithm for a computational task and calculate the time/space complexities of that algorithm

Total number Of Students: 61

Show [100 ∨] Entries   Student Scores For Attainment Calculation

USN	Student Name	Que 1		Que 2		Que 3		Que 4		Que 5		
		Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score
VML21CS001	Aadityan Harindran	0.50	3	2.00	3	2.00	3	1.00	3	NA	NA	3.00
VML21CS010	Abhinav M V	2.00	3	NA	NA	0.50	3	2.00	3	NA	NA	5.00
VML21CS013	Abhiram A	0.50	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
VML21CS015	Abhiram S Manoj	3.00	3	1.00	3	NA	NA	2.00	3	1.00	3	6.50
VML21CS018	Abin M Jose	3.00	3	0.50	3	1.00	3	3.00	3	1.00	3	7.00
VML21CS021	Adith Narayanan	2.00	3	NA	NA	NA	NA	3.00	3	NA	NA	5.00
VML21CS024	Agney J Purushotham	3.00	3	1.50	3	0.50	3	2.00	3	NA	NA	3.00
VML21CS027	Akash Santhosh	3.00	3	1.50	3	3.00	3	3.00	3	NA	NA	7.00
VML21CS029	Akhil Mathew George	NA	NA	NA	NA	3.00	3	2.50	3	0.50	3	7.00
VML21CS034	Albert Jose	2.00	3	1.50	3	0.50	3	2.50	3	NA	NA	6.00
VML21CS037	Alen Biju	2.00	3	1.50	3	1.00	3	1.50	3	0.50	3	6.00
VML21CS038	Alen Cherian	0.50	3	1.00	3	1.00	3	1.50	3	NA	NA	6.50
VML21CS039	Alen Kurian Joseph	3.00	3	NA	NA	NA	NA	0.50	3	NA	NA	2.50
VML21CS040	Alen.t.tom	3.00	3	NA	NA	NA	NA	1.00	3	NA	NA	7.00
VML21CS042	Alfi Siby	3.00	3	NA	NA	NA	NA	2.00	3	NA	NA	7.00
VML21CS044	Amal Cs	3.00	3	1.50	3	0.50	3	2.50	3	NA	NA	NA
VML21CS047	Amal Roy	NA	NA	1.00	3	NA	NA	3.00	3	NA	NA	7.00
VML21CS050	Amith T.v	3.00	3	3.00	3	3.00	3	2.00	3	NA	NA	7.00
VML21CS053	Anandhu Poyyil	1.50	3	1.00	3	1.00	3	3.00	3	3.00	3	7.00
VML21CS056	Ananya Praseed Kumar	0.50	3	1.50	3	3.00	3	2.00	3	NA	NA	3.50
VML21CS062	Aparna Bhaskar	0.50	3	1.00	3	1.00	3	2.50	3	NA	NA	4.00
VML21CS063	Arjun. Av	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.00
VML21CS065	Arjun.madathil	1.50	3	1.00	3	2.00	3	3.00	3	3.00	3	7.00
VML21CS068	Armond Jose	NA	AB	NA	AB	NA	AB	NA	AB	NA	AB	NA

USN	Student Name	Que 1		Que 2		Que 3		Que 4		Que 5		
		Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtained Score	Max Score	Obtai Score
VML21CS071	Ashik Jhonson	3.00	3	3.00	3	3.00	3	3.00	3	3.00	3	7.00
VML21CS074	Aswin Udayan	NA	NA	1.00	3	NA	NA	1.00	3	1.00	3	7.00
VML21CS076	Athul Joy	3.00	3	0.50	3	1.00	3	NA	NA	NA	NA	6.50
VML21CS079	Azzah Waheed	3.00	3	3.00	3	1.00	3	3.00	3	NA	NA	4.00
VML21CS082	Darvin Sibi	3.00	3	1.00	3	NA	NA	2.00	3	1.50	3	4.00
VML21CS085	Dhanus Joy	1.00	3	1.00	3	1.00	3	2.00	3	1.00	3	3.00
VML21CS091	Gerald Siriac	1.00	3	1.00	3	2.00	3	0.50	3	3.00	3	4.00
VML21CS094	Goutham S Prasad	NA	NA	1.00	3	2.00	3	3.00	3	3.00	3	7.00
VML21CS097	Hooriyya Binth Khalid	3.00	3	3.00	3	3.00	3	2.00	3	3.00	3	5.00
VML21CS098	Jagath K	NA	NA	1.50	3	0.50	3	2.00	3	NA	NA	4.50
VML21CS100	Jeffin Jiju	1.50	3	1.00	3	2.50	3	1.00	3	NA	NA	7.00
VML21CS103	Jestin K S	2.00	3	1.00	3	3.00	3	2.00	3	3.00	3	6.50
VML21CS109	Joyal M Joseph	3.00	3	NA	NA	1.00	3	0.50	3	NA	NA	NA
VML21CS116	K K Krishnanjana Deepak	NA	NA	1.50	3	1.00	3	3.00	3	NA	NA	6.00
VML21CS113	Karthika K P	1.00	3	1.00	3	1.50	3	2.00	3	NA	NA	5.00
VML21CS118	Lithin Krishnan	1.50	3	1.00	3	1.50	3	2.00	3	NA	NA	6.00
VML21CS120	Manasa N	3.00	3	1.00	3	NA	NA	2.00	3	NA	NA	6.00
VML21CS123	Mridula P T	NA	NA	NA	NA	1.50	3	1.50	3	NA	NA	4.00
VML21CS126	Muhammed Sabeeh C K	NA	NA	NA	NA	1.00	3	3.00	3	NA	NA	NA
VML21CS130	Nadha A P	3.00	3	1.00	3	NA	NA	3.00	3	NA	NA	6.00
VML21CS134	Narthana Prasanth	1.00	3	NA	NA	1.00	3	1.50	3	NA	NA	6.00
VML21CS136	Navendu C	NA	NA	1.00	3	1.50	3	0.50	3	3.00	3	NA
VML21CS139	Nived Manoj	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VML21CS142	P J Joseph	3.00	3	NA	NA	2.00	3	3.00	3	NA	NA	4.00
VML21CS145	Rithika Reejith	1.00	3	1.00	3	2.00	3	3.00	3	NA	NA	6.00
VML21CS148	Rohit Philip	NA	NA	1.00	3	NA	NA	2.00	3	NA	NA	5.50
VML21CS151	Sanjiv R	NA	NA	0.50	3	0.50	3	2.00	3	2.50	3	NA
VML21CS157	Seetha Lakshmi K A P	NA	NA	2.50	3	2.50	3	3.00	3	2.50	3	6.00
VML21CS160	Shawn Rajeev	NA	NA	NA	NA	2.00	3	3.00	3	NA	NA	6.00
VML21CS162	Shizin Abdul Nasar P	2.00	3	NA	NA	NA	NA	0.50	3	NA	NA	4.00
VML21CS164	Sivada N Rajeev	3.00	3	NA	NA	0.50	3	3.00	3	NA	NA	7.00
VML21CS167	Sreelakshmi V V	NA	NA	NA	NA	2.00	3	3.00	3	1.00	3	7.00
VML21CS169	Sreya Pavanan	3.00	3	2.00	3	1.00	3	3.00	3	NA	NA	7.00

| | Student | | | | | | |

Attainment Calculation Steps and Formulas :

Step 1: Calculation of attainment for Question: 1

a) # of students attended

- Total number of students who have attended Q1 = 44

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 34

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

   = [(34) / (44)] *100

   = 77.27 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 1(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 1 attainment = 3

Step 2: Calculation of attainment for Question: 2

a) # of students attended

- Total number of students who have attended Q2 = 41

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 16

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

   = [(16) / (41)] *100

   = 39.02 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 2(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

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Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 2 attainment = 0.78

Step 3: Calculation of attainment for Question: 3

a) # of students attended

- Total number of students who have attended Q3 = 43

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 23

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

  = [(23) / (43)] *100

  = 53.49 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 3(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 3 attainment = 1.35

Step 4: Calculation of attainment for Question: 4

a) # of students attended

- Total number of students who have attended Q4 = 56

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 47

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

  = [(47) / (56)] *100

  = 83.93 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 4(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 4 attainment = 3

Step 5: Calculation of attainment for Question: 5

a) # of students attended

- Total number of students who have attended Q5 = 19

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 11

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

= [(11) / (19)] *100

= 57.89 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 5(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 5 attainment = 1.79

Step 6: Calculation of attainment for Question: 7

a) # of students attended

- Total number of students who have attended Q7 = 53

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 49

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

= [(49) / (53)] *100

= 92.45 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 7 attainment = 3

Step 7: Calculation of attainment for Question: 8

a) # of students attended

- Total number of students who have attended Q8 = 37

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 20

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

= [(20) / (37)] *100

= 54.05 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%
Attainment Level 3	70 % of students score more than 50%

As per the result obtained in 'step 7(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 8 attainment = 1.41

Step 8: Calculation of attainment for Question: 9

a) # of students attended

- Total number of students who have attended Q9 = 59

b) # of students with achieved target

- Total number of students who have achieved target (50 %) = 50

c) Attainment percentage = (# of students with achieved target/ # of students attended) * 100

= [(50) / (59)] *100

= 84.75 %

d) Refer below attainment levels

Attainment level	Attainment score given, when
Attainment Level 1	50 % of students score more than 50%
Attainment Level 2	60 % of students score more than 50%

As per the result obtained in 'step 8(C)' student percentage lies between either of the one range given below :

1. Less than attainment level 1
Attainment = (actual percentage / attainment level1)

2. In between attainment level 1 and attainment level 2
Attainment = 1 + (1 / (attainmentLevel2 - attainmentLevel1)) * (actualPercentage - attainmentLevel1))

3. In between attainment level 2 and attainment level 3
Attainment = 2 + (1 / (attainmentLevel3 - attainmentLevel2)) * (actualPercentage - attainmentLevel2))

4. Greater than attainment level 3
attainment = 3

Therefore, total Question 9 attainment = 3

Therefore, total IA 1 attainment = (W1 Q1   + W2 Q2   + W3 Q3   + W4 Q4   + W5 Q5   + W7 Q7   + W8 Q8   + W9 Q9   )/(W1 + W2 + W3 + W4 + W5 + W7 + W8 + W9)

(Where W = total number of students attended)

 = 2.31