

Question # 10 of 10 (Start time: 10:41:23 PM, 24 July 2023)

Total Marks: 1

In union operation , the root of one tree points to the _____ of other tree.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Left Subtree
<input type="radio"/>	Leaf node
<input checked="" type="radio"/>	Root node
<input type="radio"/>	Right Subtree

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Question # 3 of 10 (Start time: 10:34:04 PM, 24 July 2023)

Total Marks: 1

Union by size is also known as:

Select the correct option

[Reload Math Equations](#)

<input checked="" type="radio"/>	Union by Weight
<input type="radio"/>	Union by Height
<input type="radio"/>	Union by Root
<input type="radio"/>	Union by nodes

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Question # 5 of 10 (Start time: 10:35:43 PM, 24 July 2023)

Total Marks: 1

If we call the union function as $\text{union}(5, 7)$, then the name of the new set will be _____.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	7
<input type="radio"/>	5+7
<input type="radio"/>	5&7
<input checked="" type="radio"/>	5

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Question # 7 of 10 (Start time: 10:37:40 PM, 24 July 2023)

Total Marks: 1

In the given array representation of a tree constructed with Union by size method, which node is the parent of 7?

-1	-1	-1	3	3	5	5	7
1	2	3	4	5	6	7	8

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	2
<input checked="" type="radio"/>	5
<input type="radio"/>	7
<input type="radio"/>	1

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Question # 4 of 10 (Start time: 10:34:54 PM, 24 July 2023)

Total Marks: 1

If the value to be searched in array using binary search algorithm is less than the mid value, this value will be searched in _____ of array.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Last index
<input type="radio"/>	Second half
<input type="radio"/>	Mid index
<input checked="" type="radio"/>	First half

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Question # 6 of 10 (Start time: 10:36:42 PM, 24 July 2023)

Total Marks: 1

In Binary Search Algorithm, if the value being searched is smaller than "mid ", then updated "high" for the left half of array will be computed as:

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-----------------|
| <input checked="" type="radio"/> | High = mid - 1 |
| <input type="radio"/> | High = mid * 2 |
| <input type="radio"/> | High = mid +low |
| <input type="radio"/> | High = mid +1 |

[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 10:38:56 PM, 24 July 2023)

Total Marks: 1

Binary Search Algorithm cannot be applied to :

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Array sorted in ascending order
<input checked="" type="radio"/>	Array sorted in any order
<input type="radio"/>	Linked List
<input type="radio"/>	Array sorted in descending order

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Question # 9 of 10 (Start time: 10:39:55 PM, 24 July 2023)

Total Marks: 1

What would be the "mid" index if value 10 is find from the given array using binary search algorithm?

1	5	7	9	10	13	17	19	27
0	1	2	3	4	5	6	7	8

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	8
<input type="radio"/>	7
<input type="radio"/>	0
<input checked="" type="radio"/>	4

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Question # 2 of 10 (Start time: 10:33:15 PM, 24 July 2023)

Total Marks: 1

In Binary Search Algorithm, if the value being searched is greater than "mid", then updated "low" for the right half of array will be computed as:

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Low = mid * 2
<input checked="" type="radio"/>	Low = mid + 1
<input type="radio"/>	Low = mid - 1
<input type="radio"/>	Low = mid + high

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Question # 1 of 10 (Start time: 10:32:02 PM, 24 July 2023)

Total Marks: 1

In the given array representation of a tree constructed with Union by size method, which node(s) are without parent node?

-1	-1	-1	3	3	5	5	7
1	2	3	4	5	6	7	8

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	2,3
<input checked="" type="radio"/>	1,2,3
<input type="radio"/>	1,3
<input type="radio"/>	1,2

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