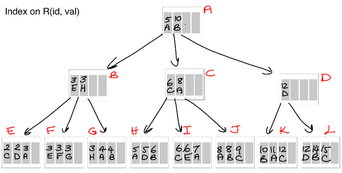
New submission for: Lecture Exercise 20

Due: 11/18/2020 @ 11:59 PM EST



1. Suppose you are given the above B-tree on R(id,val) where id is an integer and val is a string. Assume (id,val) pairs are unique for R.
Check all nodes that are visited for the following search: `id = 5 and val >= 'B'`.

- [x] A
- [ ] B
- [x] C
- [ ] D
- [ ] E
- [ ] F
- [ ] G
- [x] H
- [ ] I
- [ ] J
- [ ] K
- [ ] L

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2. How many tuples are found to match the search condition from Question 1?

- (•) 1
- ( ) 2
- ( ) 3
- ( ) 4
- ( ) 5
- ( ) between 5 and 8
- ( ) more than 8
- ( ) none of these options

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3. Suppose you are given the above B-tree on R(id,val) where id is an integer and val is a string. Assume (id,val) pairs are unique for R.
Check all nodes that are visited for the following search: `id >= 5 and val = 'B'`.

- [x] A
- [ ] B
- [x] C
- [ ] D
- [ ] E
- [ ] F
- [ ] G
- [x] H
- [x] I
- [x] J
- [x] K
- [x] L

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4. How many tuples are found to match the search condition from Question 3?

- ( ) 1
- ( ) 2
- ( ) 3
- (•) 4
- ( ) 5
- ( ) between 5 and 8
- ( ) more than 8
- ( ) none of these options

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5. Suppose you are given the above B-tree on R(id,val) where id is an integer and val is a string. Assume (id,val) pairs are unique for R.
Check all nodes that are visited for the following search: `id = 6`.

- [x] A
- [ ] B
- [x] C
- [ ] D
- [ ] E
- [ ] F
- [ ] G
- [x] H
- [x] I
- [ ] J
- [ ] K
- [ ] L

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6. How many tuples are found to match the search condition from Question 5?

- ( ) 1
- ( ) 2
- (•) 3
- ( ) 4
- ( ) 5
- ( ) between 5 and 8
- ( ) more than 8
- ( ) none of these options

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7. Suppose you are given the above B-tree on R(id,val) where id is an integer and val is a string. Assume (id,val) pairs are unique for R.
Check all nodes that are visited for the following search: `val = 'E'`.

- [x] A
- [x] B
- [ ] C
- [ ] D
- [x] E
- [x] F
- [x] G
- [x] H
- [x] I
- [x] J
- [x] K
- [x] L

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8. How many tuples are found to match the search condition from Question 7?

- ( ) 1
- (•) 2
- ( ) 3
- ( ) 4
- ( ) 5
- ( ) between 5 and 8
- ( ) more than 8
- ( ) none of these options

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9. Suppose you are given the above B-tree on R(id,val) where id is an integer and val is a string. Assume (id,val) pairs are unique for R.
Check all nodes that are visited for the following search: `id >= 3 and id < 7 and val >= 'B' and val < 'E'`.

- [x] A
- [x] B
- [ ] C
- [ ] D
- [x] E
- [x] F
- [x] G
- [x] H
- [x] I
- [ ] J
- [ ] K
- [ ] L

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10. How many tuples are found to match the search condition from Question 9?

- ( ) 1
- ( ) 2
- ( ) 3
- (•) 4
- ( ) 5
- ( ) between 5 and 8
- ( ) more than 8
- ( ) none of these options

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