Quiz 5: Depth First Tree Search: Space and Time Complexity

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1/1 point (ungraded)

Select all of the following statements that are true about depth-first tree search. Remember that b is the branching factor and m is the depth of the search tree.

- ☑ At any given time during the search, the number of nodes on the fringe can be no larger than bm.

- ☐ At any given time during the search, the number of nodes on the fringe can be as large as b^m.

- ☐ The number of nodes expanded throughout the entire search can be no larger than bm.

- ☑ The number of nodes expanded throughout the entire search can be as large as b^m.

✔

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✔ Correct (1/1 point)