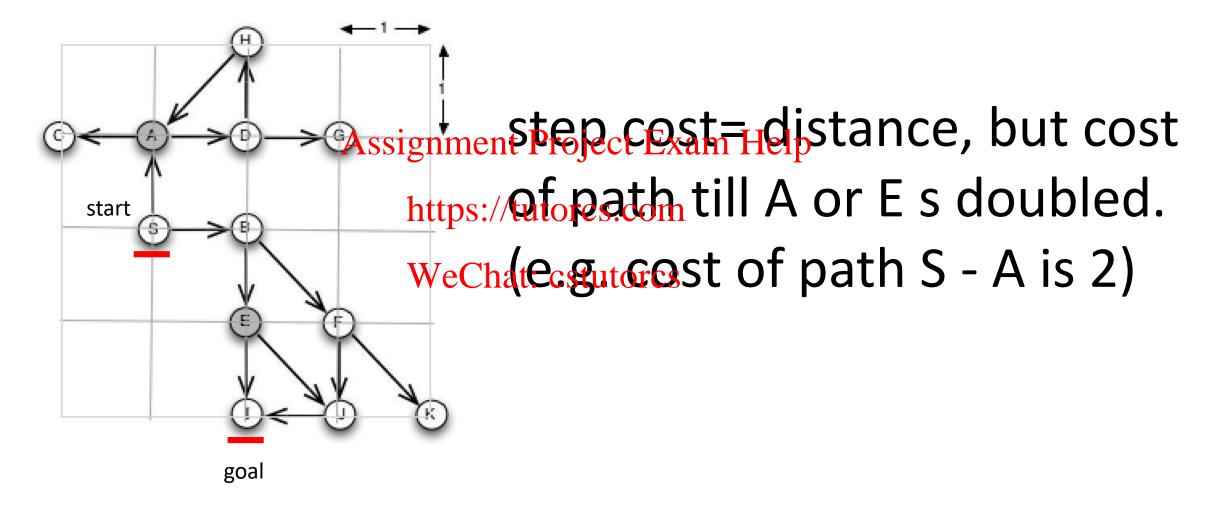
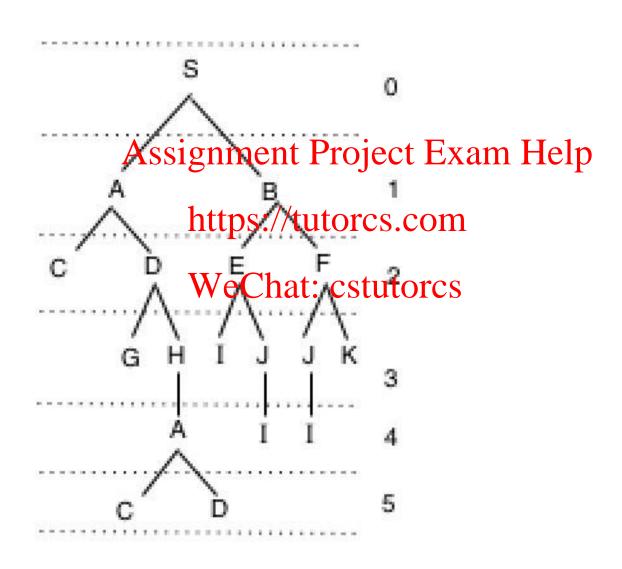
Uninformed/informed search



Possible search tree



Uninformed search: Sample solutions

In what order may nodes be expanded using breadth-first?
 S-A-B-C-D-E-F-G-H-I

Assignment Project Exam Help

- Best path (for Uniform-cost search)?
 S-B-F-J-I
 (so breadth-first not optimal/if step-cost not constant)
- In what order may nodes be expanded using depth-first?
 ➤S-B-E-I.
 (depth-first could loop if path starts with S-A....loop checking needed)
- Best (least) depth for depth-limited?
 3

Informed search: Sample solutions

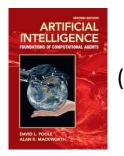
- Admissible heuristics?
 - Straight line distance from any circle to the goal circle I.

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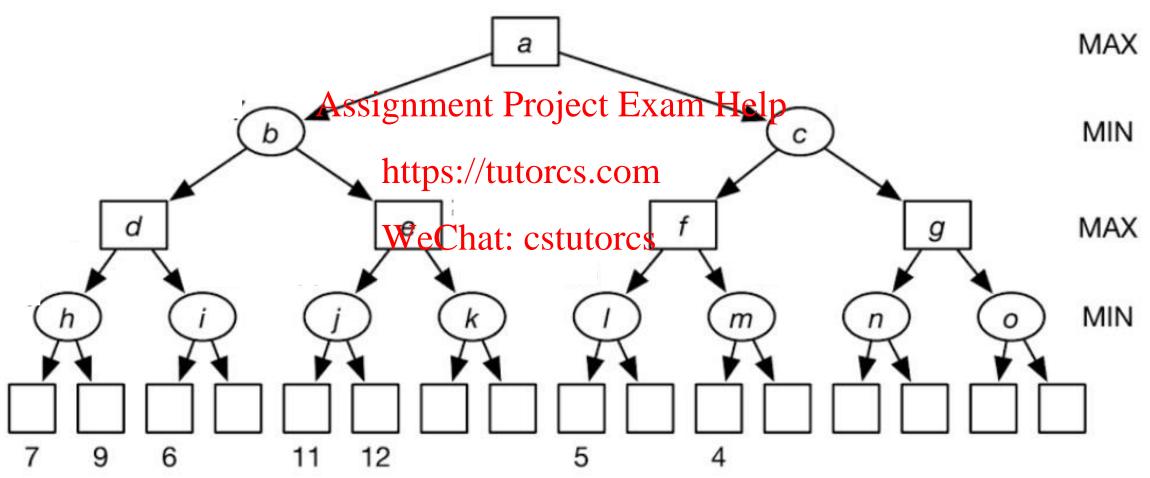
- Using
 - the straight-line-wistante addmissible heuristic and
- step cost= distance, but cost of path till A or E is doubled which of E and F will A* search expand first?



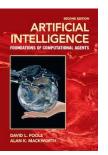
Adversarial search (minimax, α - β pruning)



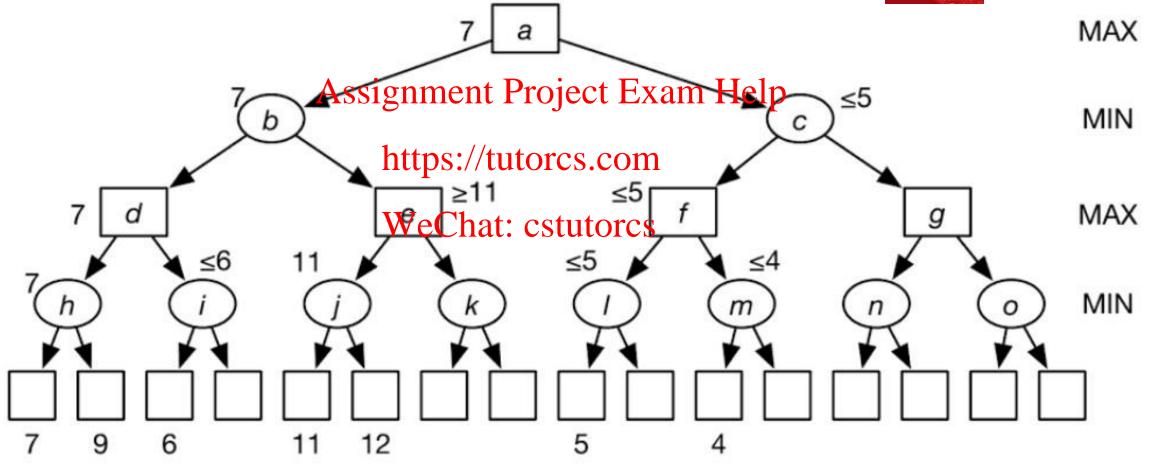
(section 11.2.2)



Adversarial search (minimax, α - β pruning)



(section 11.2.2)



Adversarial search (minimax, α - β pruning)

Check tool at:

http://inst.eecs.berkelex.edu/~cs61b/fg14/ta-materials/apps/ab_tree_practice/

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