

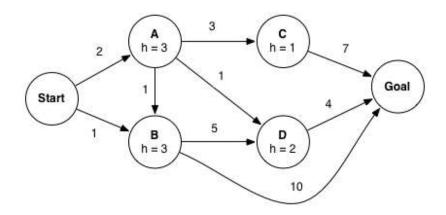
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hw1_search_q4_a*_graph_search

Question 4: A* Graph Search

8/8 points (ungraded)

Consider A* graph search on the graph below. Arcs are labeled with action costs and states are labeled with heuristic values. Assume that ties are broken alphabetically (so a partial plan S->X->A would be expanded before S->X->B and S->A->Z would be expanded before S->B->A.



In what order are states expanded by A* graph search? You may find it helpful to execute the search on scratch paper.

- Start, A, B, C, D, Goal
- Start, A, C, Goal
- Start, B, A, D, C, Goal ✓
- Start, A, D, Goal
- Start, A, B, Goal

Start, B, A, D, B, C, Goal	
What path does A* graph search return?	
O Start-A-C-Goal	
O Start-B-Goal	
■ Start-A-D-Goal ✓	
Start-A-B-Goal	
O Start-A-B-D-Goal	
Submit	
✓ Correct (8/8 points)	

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