

## Search Notes

Method	Guarantee	Heuristic?	optimization	Q	Worst Case Time	Worst Case Space
• Depth-First Search	any-path	uninformed	visited list	stack	$b^{d+1}$	$bd$
• Breadth-First Search	fewest links	uninformed	visited list	queue	$b^{d+1}$	$b^d$
• Progressive Deepening	fewest links	uninformed	visited list	stack	$b^{d+1}$	$bd$
• Best-First Search	any-path	informed	visited list	priority queue	-	-
• Uniform Cost	optimal path	uninformed	strict expanded list	priority queue	-	-
• A*	optimal path	informed	strict expanded list	priority queue	-	-
<i>Requires admissible heuristic (consistent to use strict expanded list)</i>						