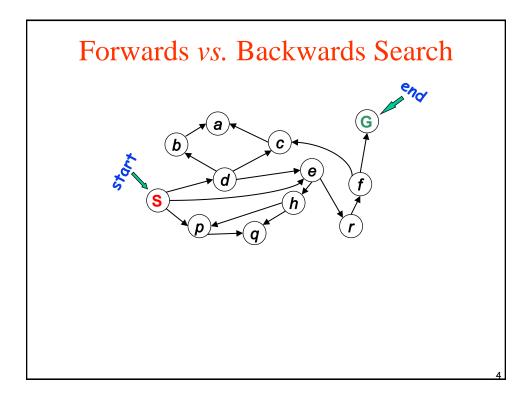
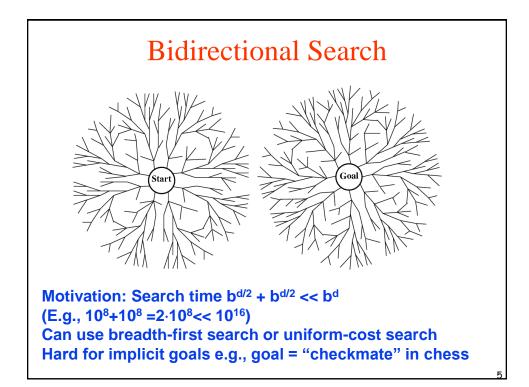
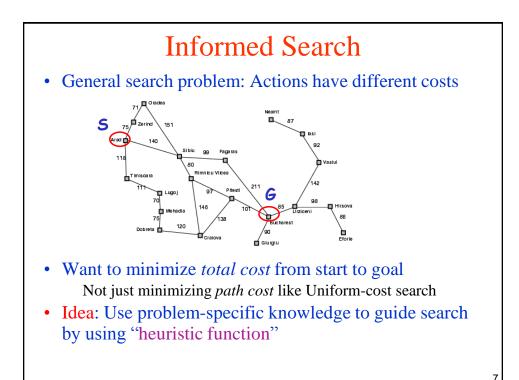


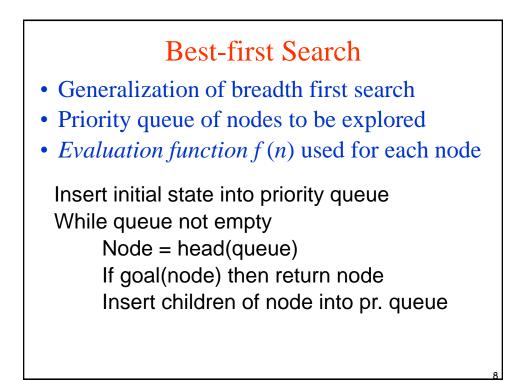
Summary of algorithms					
Criterion	Breadth-	Uniform-	Depth-	Depth-	Iterative
enterion	First	Cost	First	Limited	Deepening
Complete?	Yes*	Yes*	No	Yes, if $l \ge d$	Yes
Time	b^d	$b^{\lceil C^*/\epsilon \rceil}$	b^m	b^l	b^d
Space	b^d	$b^{\lceil C^*/\epsilon \rceil}$	bm	bl	bd
Optimal?	Yes*	Yes*	No	No	Yes

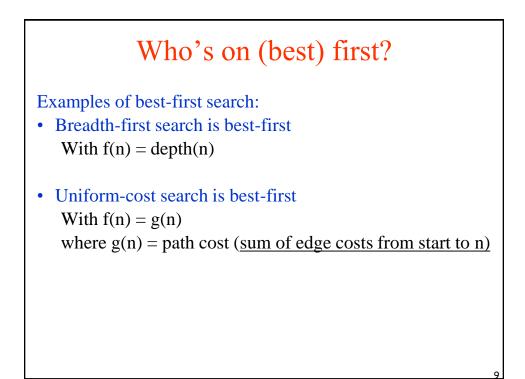


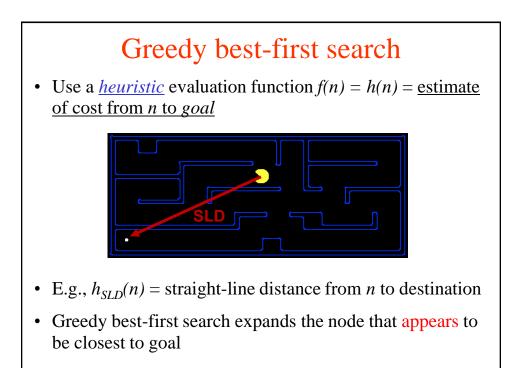


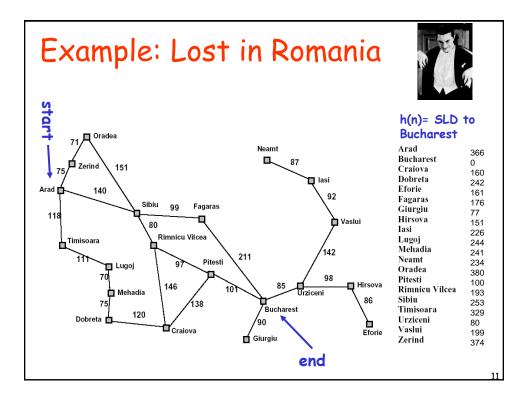


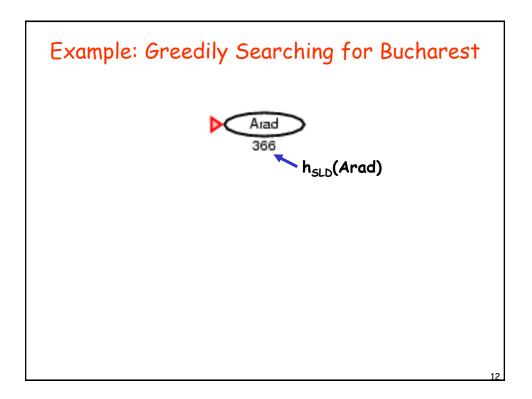


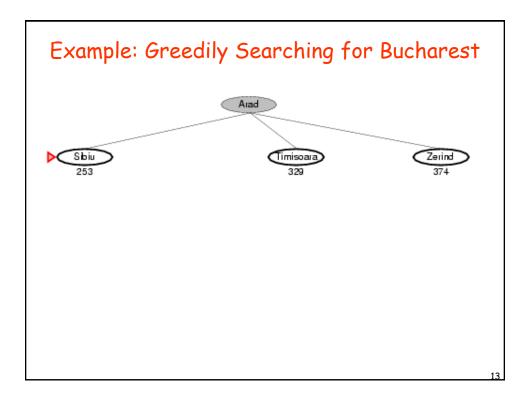


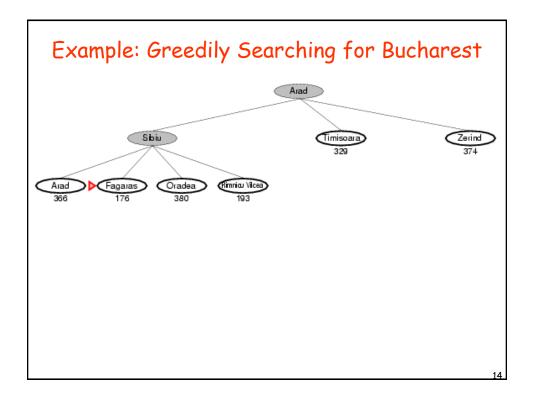


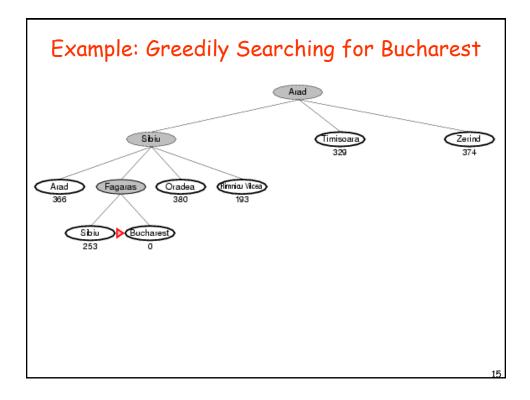


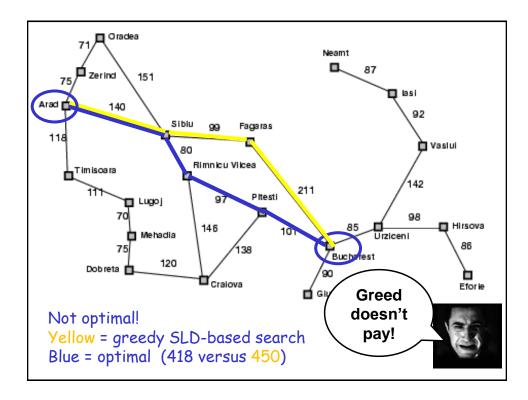


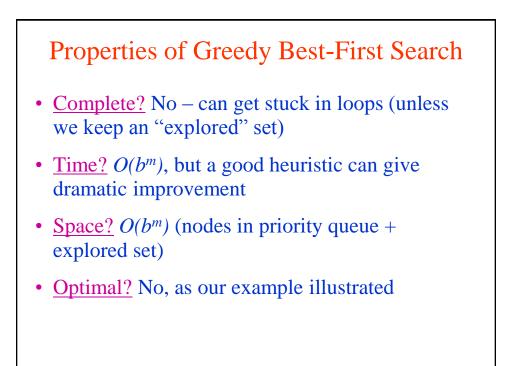














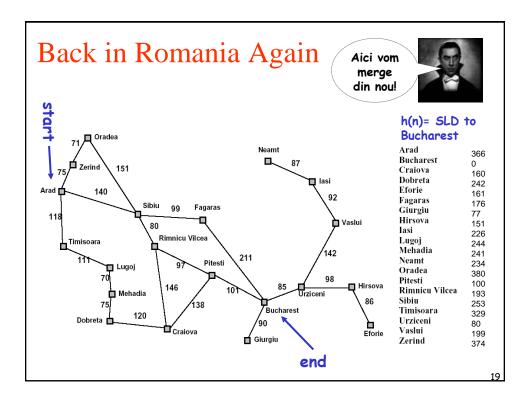
(Hart, Nilsson & Rafael 1968)

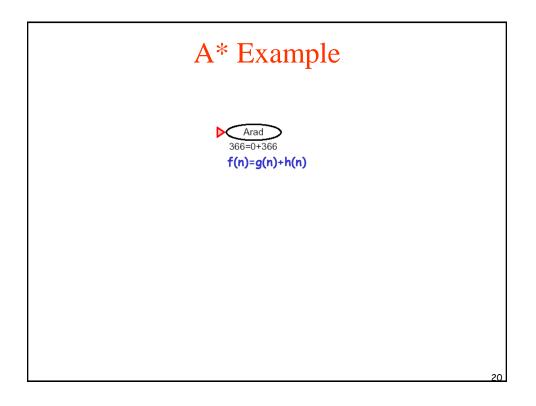
Best first search with f(n) = g(n) + h(n)

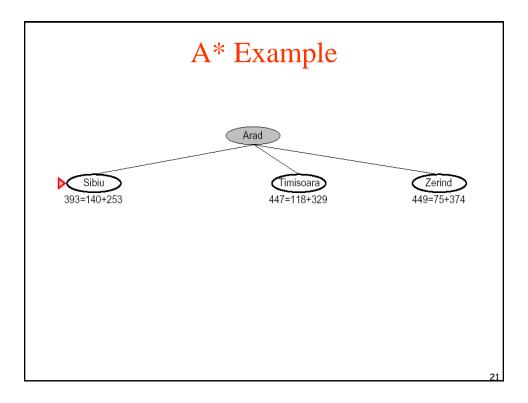
g(n) = sum of edge costs from start to n + heuristic function h(n) = estimate of lowest cost path from n to goal

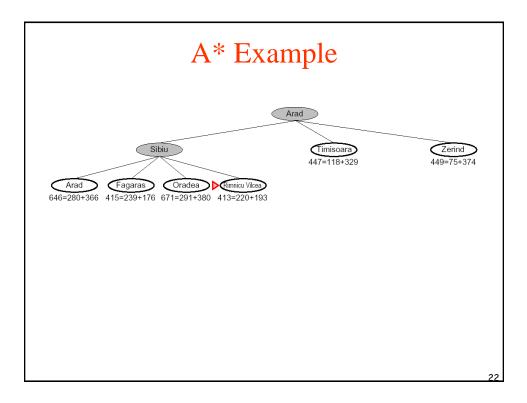
If h(n) is "admissible" then tree-search will be optimal

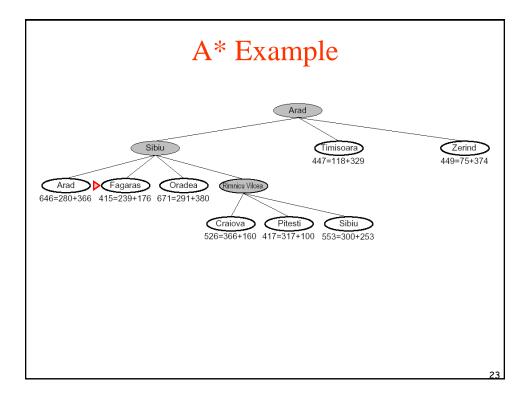
Underestimates cost of any solution which can be reached from node

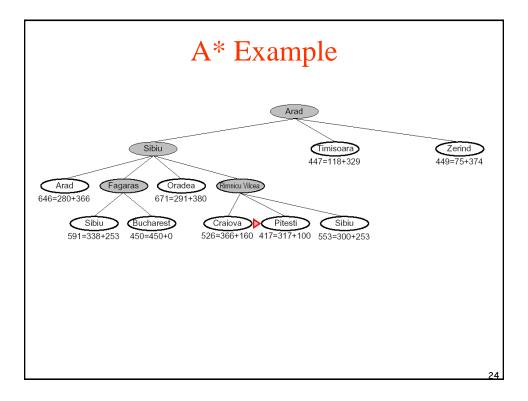


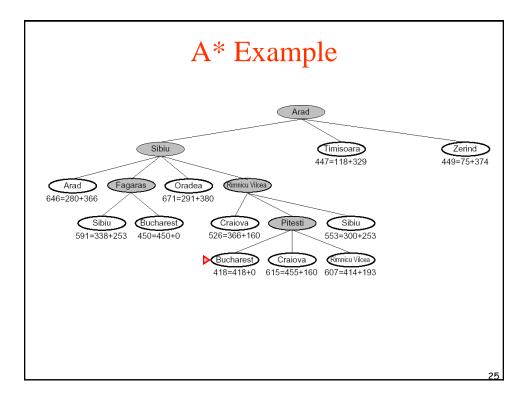


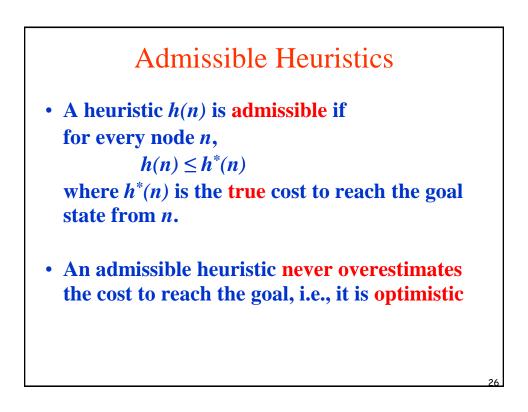


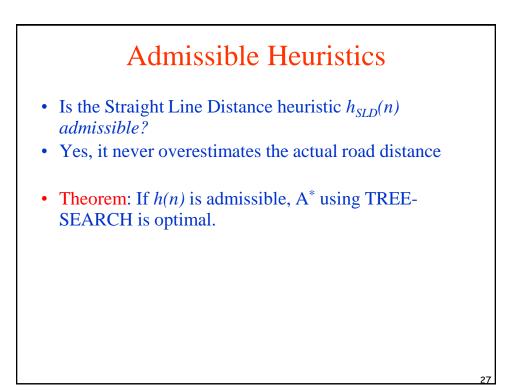


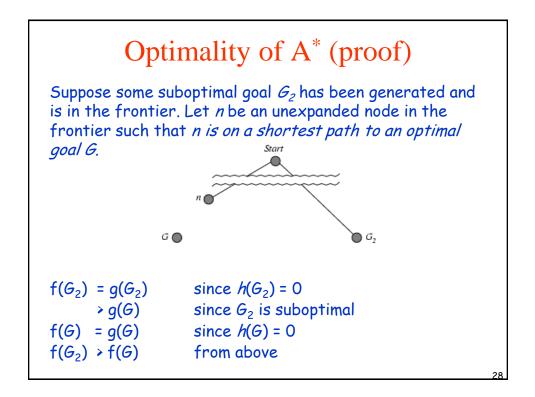


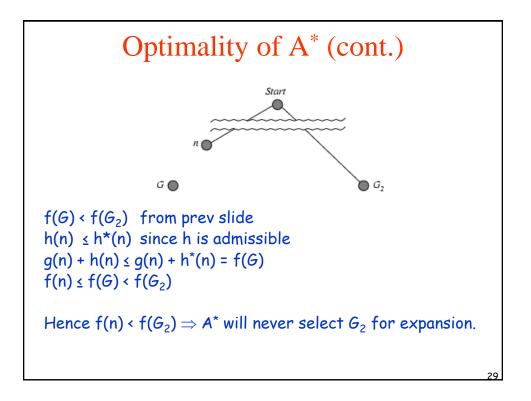


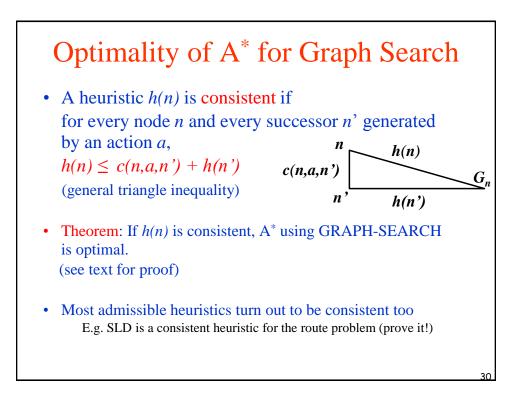


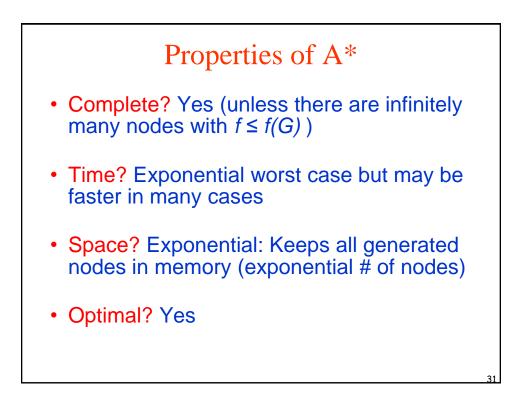


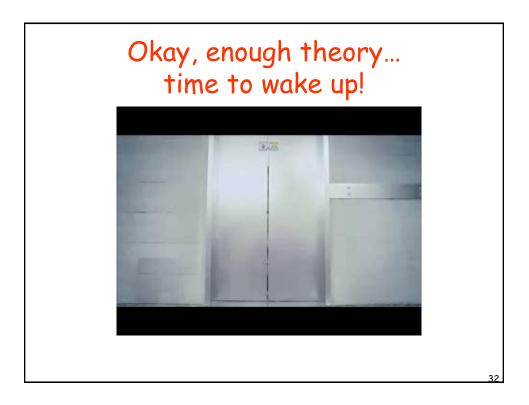












Next Time

- How to climb hills
- How to reach the top by annealing
- How to simulate and profit from evolution
- How to oppan Gangnam style

