

Comparing Search Strategies

Criterion	BFS	UCS	DFS	DLS	ID-DFS
Complete	YES ^a	YES ^{ab}	NO	NO	YES ^a
Optimal	YES ^c	YES	NO	NO	YES ^c
Time	$O(b^d)$	$O(b^{1+ \lfloor LC^*/\epsilon \rfloor})$	$O(b^m)$	$O(b^L)$	$O(b^d)$
Space	$O(b^d)$	$O(b^{1+ \lfloor LC^*/\epsilon \rfloor})$	$O(bm)$	$O(bL)$	$O(bd)$

(a) if b is finite(b) if action costs > 0

(c) if all costs equal