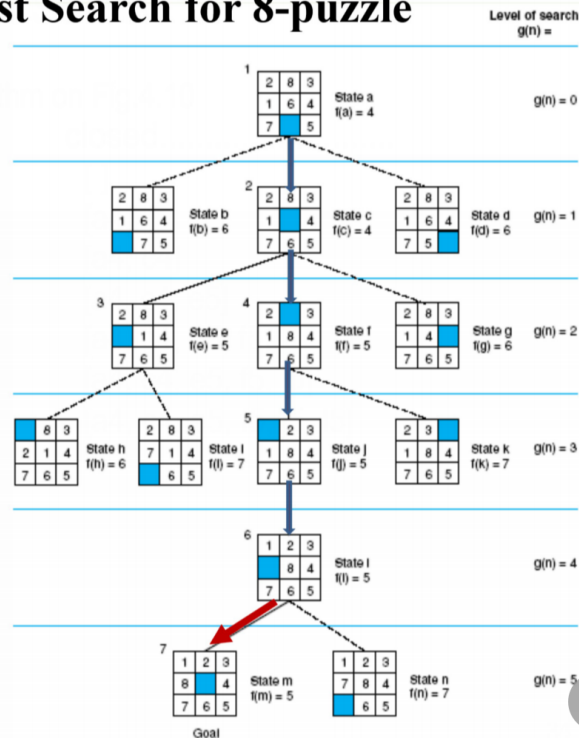


Example Best-First Search for 8-puzzle

Example: Best-First Search for 8-puzzle

The successive stages for *open* and *closed* using the best-first-search algo

1. [a4]
2. [c4, b6, d6]
3. [e5, f5, g6, b6, d6]
4. [f5, h6, g6, b6, d6, I7]
5. [j5, h6, g6, b6, d6, k7, I7]
6. [l5, h6, g6, b6, d6, k7, I7]
7. [m5, h6, g6, b6, d6, n7, k7, I7]
8. success, m=goal !



Solution

iteration open closed

1 a4

2 c4 b6 d6 粘集
升序 a4

3 e5 f5 g6 b6 d6 c4 a4
 升序+字母顺序 粘字

4 f5 h6 g6 b6 d6 i7 e5 c4 a4

5 j5 h6 g6 b6 d6 k7 i7 f5 e5 c4 a4

6 l5 h6 g6 b6 d6 k7 i7 j5 f5 e5 c4 a4

7 m5 h6 g6 b6 d6 n7 k7 i7 l5 j5 f5 e5 c4 a4

success, m=goal!

total 7 steps