Panent [w] =  $M_2$ Panent [v] = VPanent [v] =  $M_1$ Move (v) =  $M_1$  Judokn

DFS
- 411 Potths have Some length.

0-Puzzle

BFS
- Want to find Shortest
Puths

## BES & DES have O(N+m)-time (omplexity

9: [X ... B10] [&...B., B., - B.] 3 Bu... B, g ]

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Queu spire is 9' for ith level. 17-clue Sudokn Pazzks exist 981-17 = more than all memory
on emth! Problem is space usage!

Wage of DFS ~ depth of sullaku graph
(only for space) Se elts from each levd

9-(): +a() h()

fgh