



Start State So e S star Groul States G = S Succis) = set of nort states Cost (posts) = S Cost (edge) edge & posts state space Input to our search problem

Search Algo:

1 Keep buen-pointers (3) keep a "Closed rist" (s, c, pa)

2. Loop: , parent)
3. (S,C) \(\in PQ \) [If PQ \(\text{Empty}, \) \(\text{fall} \)

if sea then success! end 4.

PQ ← {76 ma(s): (1, c+ edge.cost (s->7))}, s} S. push all successors into the PQ.