

Uniform-Cost Search

 $\frac{2}{8}$ > $\frac{5}{6}$ optimal goal would be 6_2 , cost of 6 (pushing to PQ)

(Non4 do goal sheck when benevoting new nodes

PQ:

$$\frac{S_{0},0}{(A 1)}$$

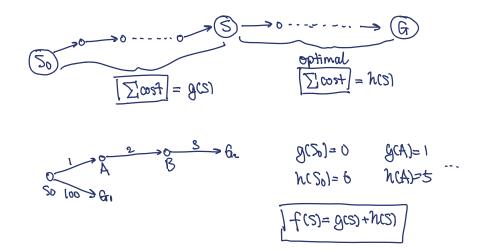
$$\frac{A 1}{(B_{1},3)}$$

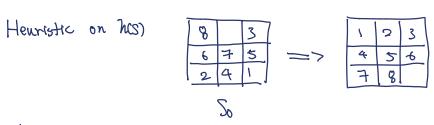
$$\frac{B_{1},3}{(B_{2},6)}$$

$$\frac{B_{1},3}{(B_{2},6)}$$

$$\begin{array}{c}
(S_0, \delta) \\
(A 1) \\
(B, 3) \\
(G_{21} \delta) \longrightarrow \text{found}
\end{array}$$

A search





example:

h(s) is hypothetical, houristic

$$\frac{6}{8} \frac{8}{3}$$
 $g(S) = 9$
 $\frac{2}{4} \frac{4}{1}$ $h(S) = 3$

h(s) & form howristic & This is because for each wrong till, you have to more it once

Another heuristic

Another heurstor

h(S) = 0. Is the the lover bound of the hereton?