

Quiz

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PAH (Planning and Games)

What is an *optimal/perfect* heuristic h^* ?

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Answer:

Maps each state to the length of a shortest path to any goal state.

What is an *admissible* heuristic h ?

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For each state s : $h(s) \leq h^*(s)$.

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For all states s let s' be its successor obtained via operator o with cost c . Then

$$h(s) \leq h(s') + c$$

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- ▶ goal-aware & safe \Rightarrow admissible
- ▶ goal-aware & consistent \Rightarrow admissible
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