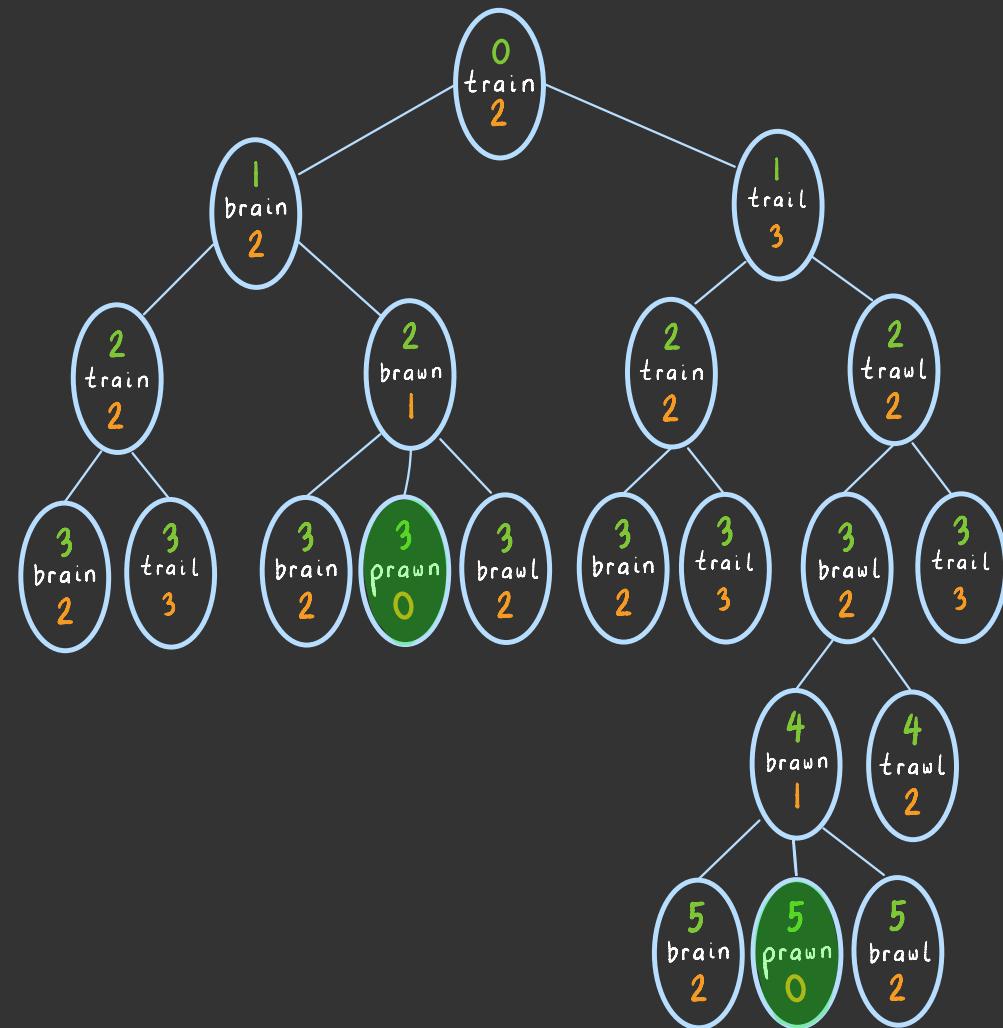


A\* search  
28 sept  
2022

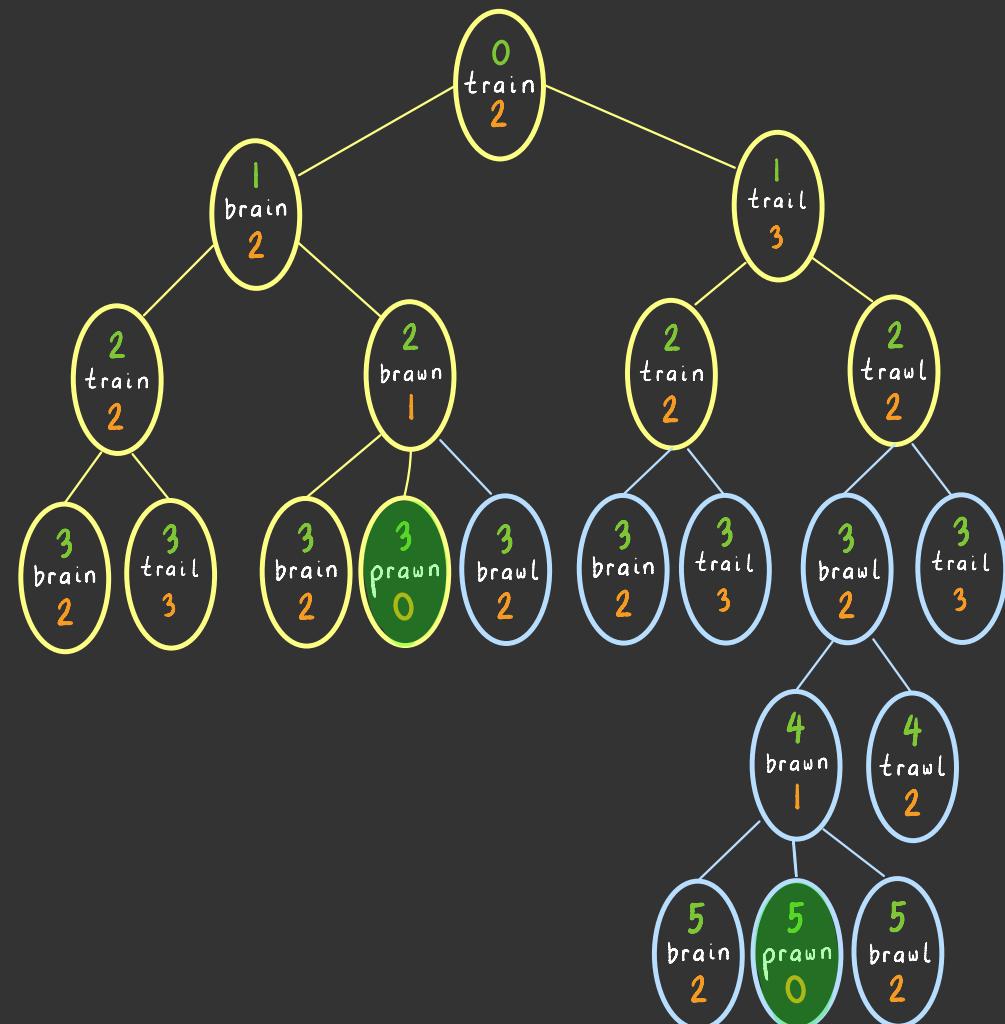
CSCI  
373

the power of  
guessing

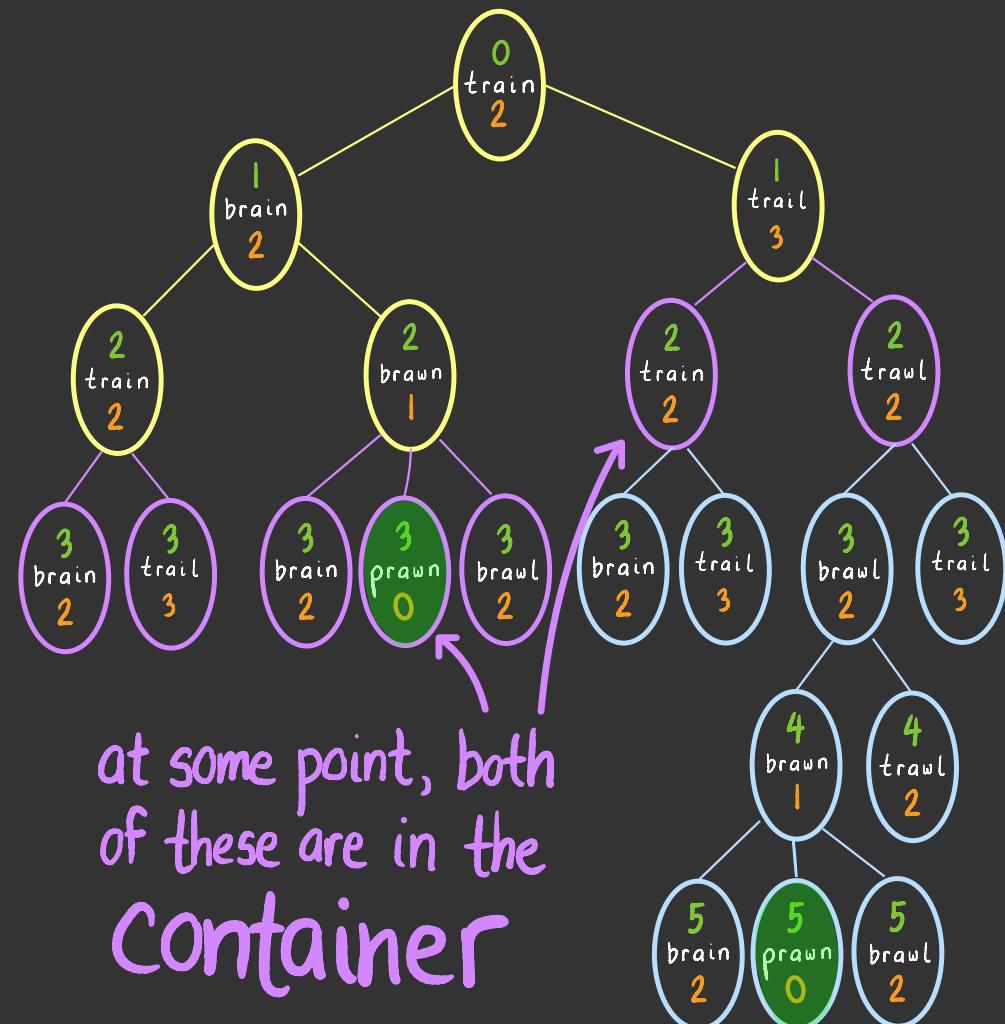


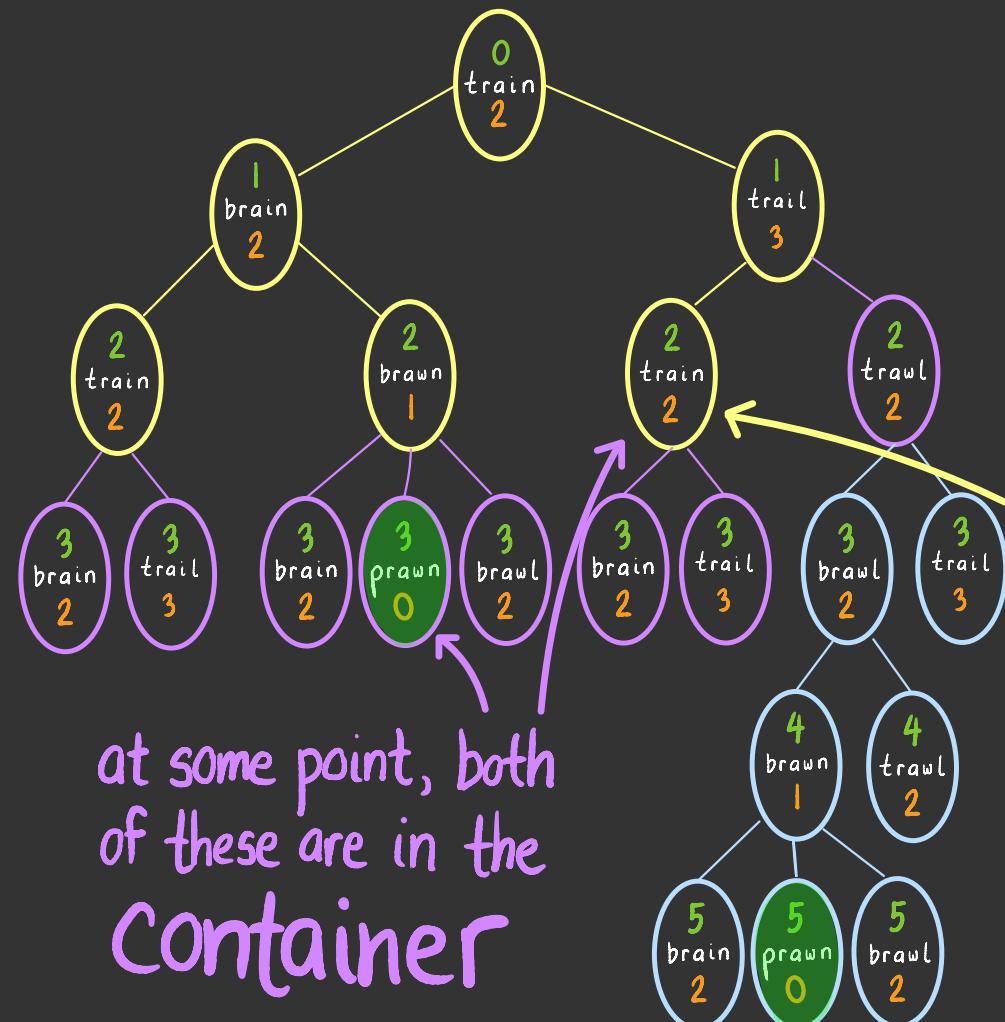


which nodes does  
UCS visit prior  
to visiting a  
goal node?

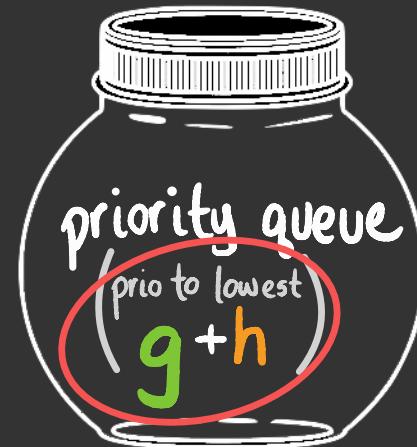
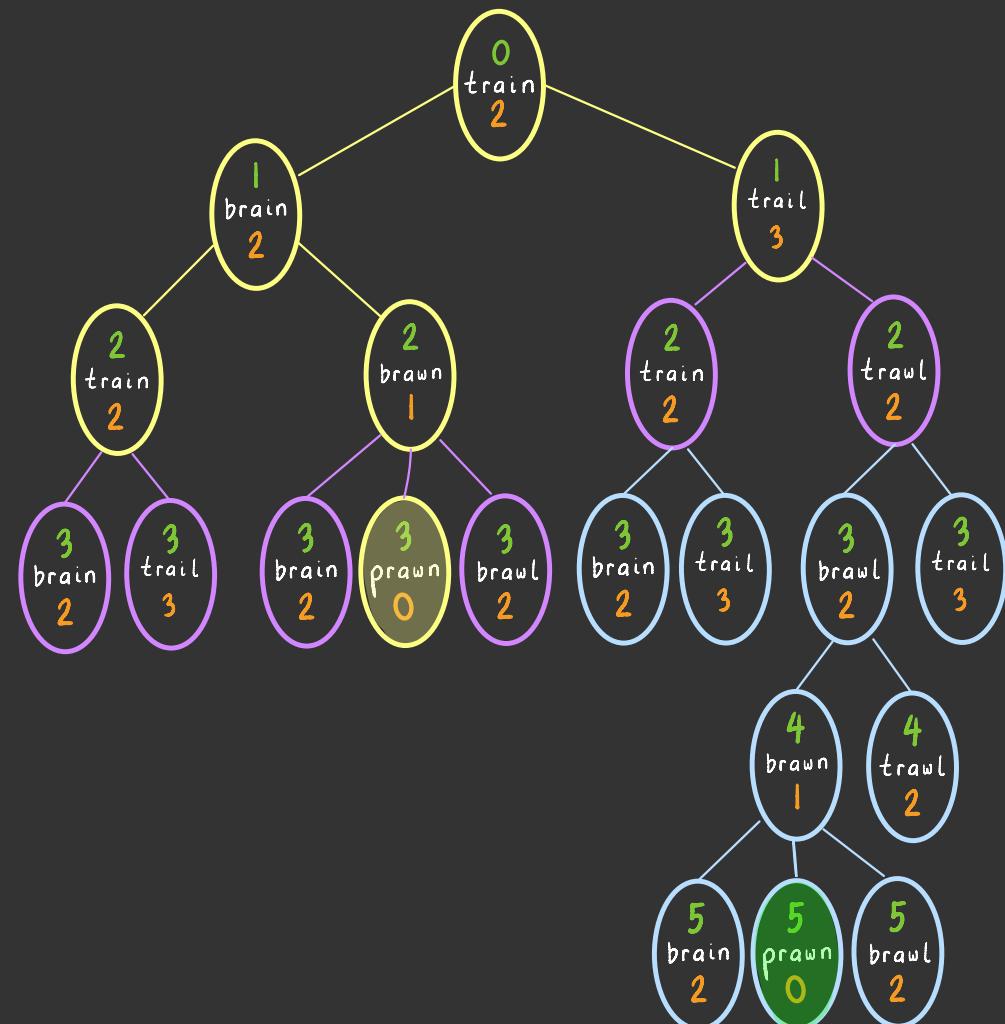


UCS visits all nodes up to the Solution depth

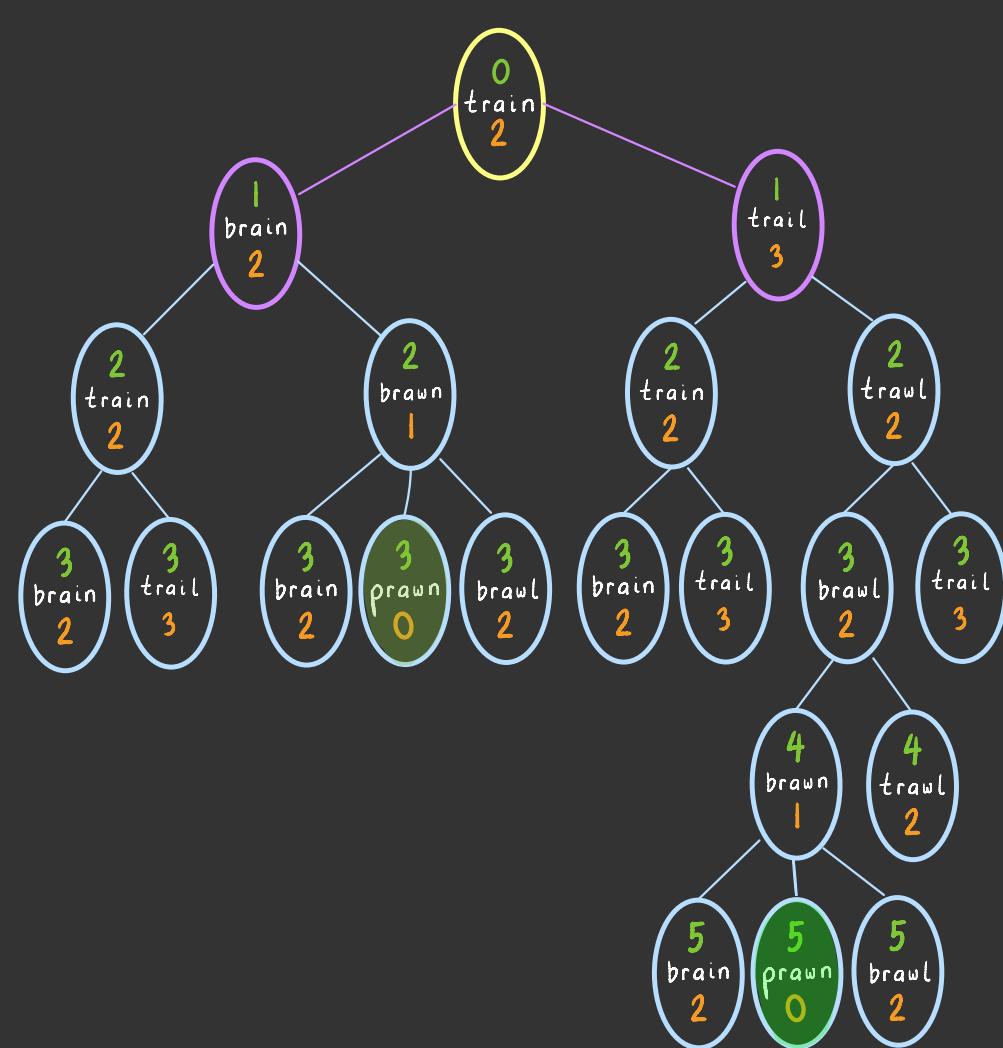


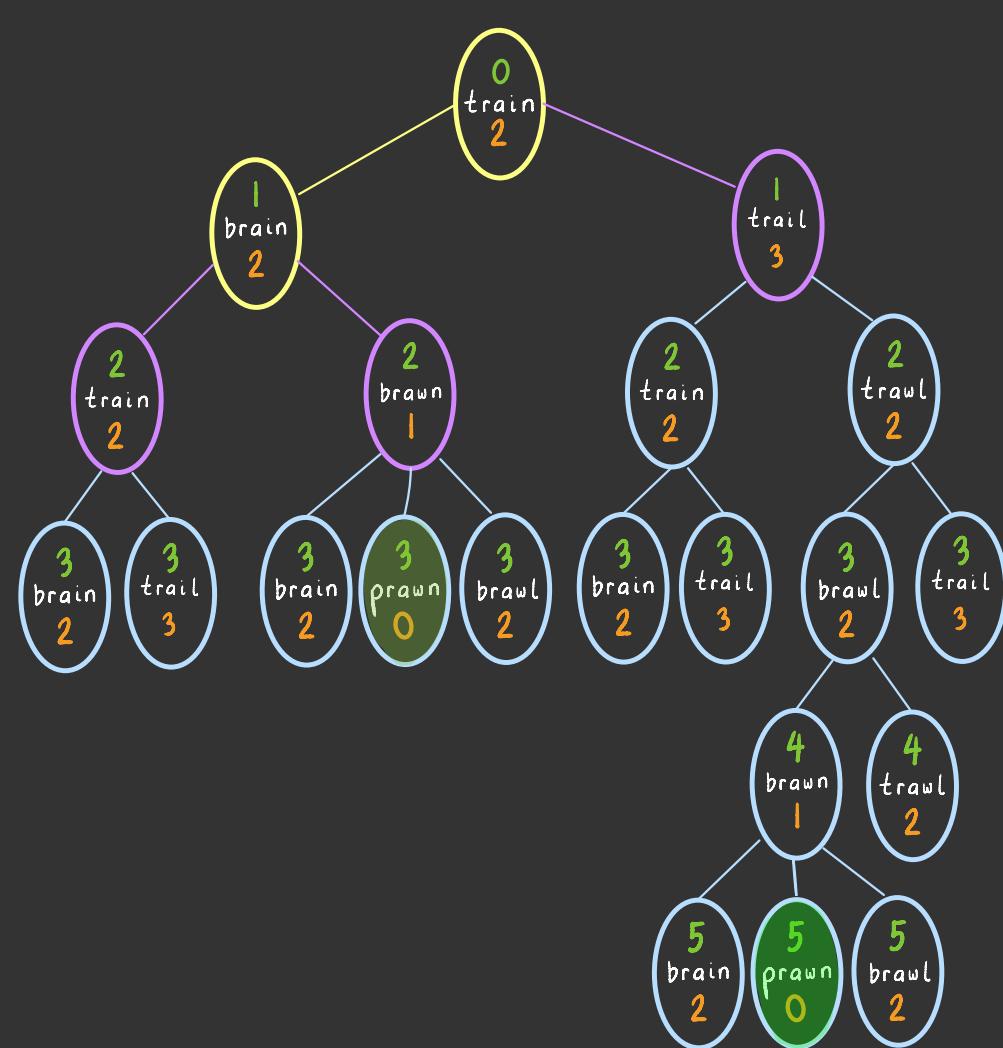


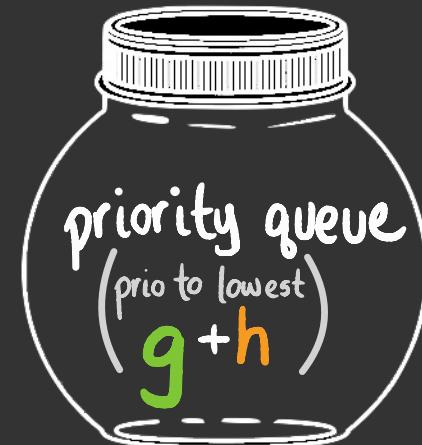
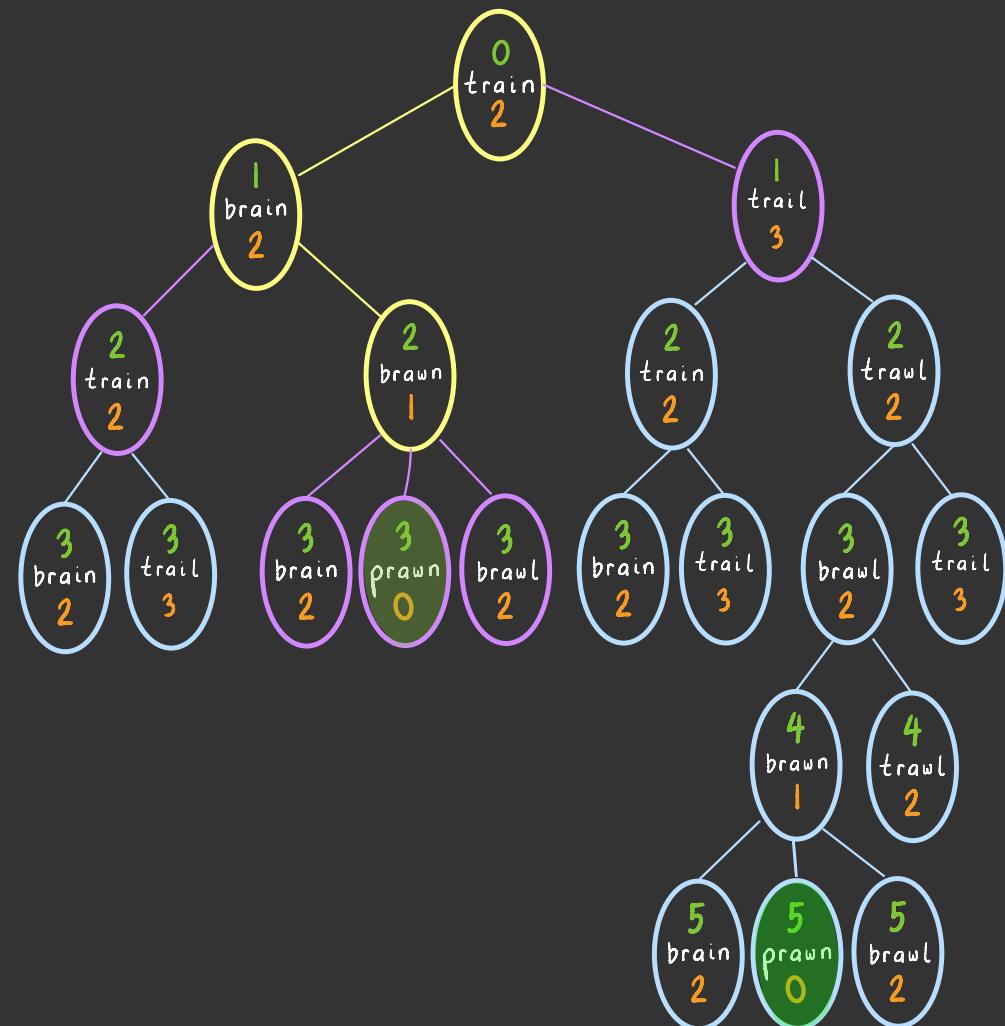
UCS visits  
this one  
but that doesn't  
seem sensible

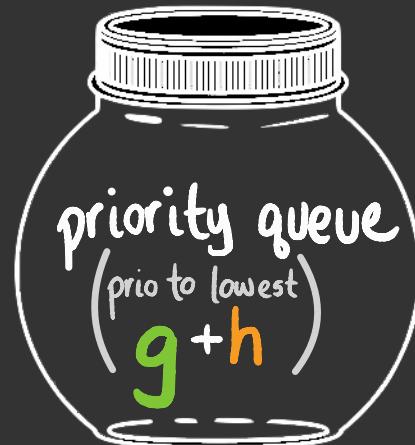
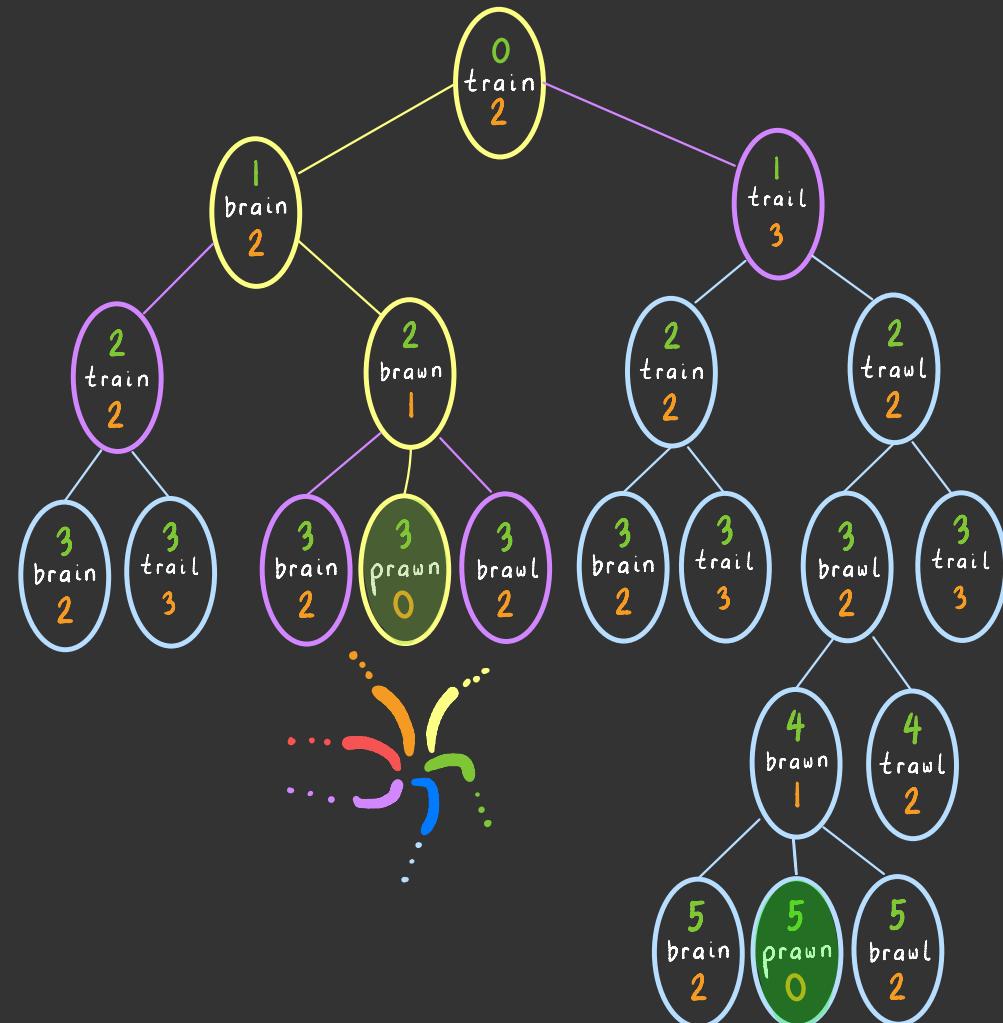


what if we change the priority function?



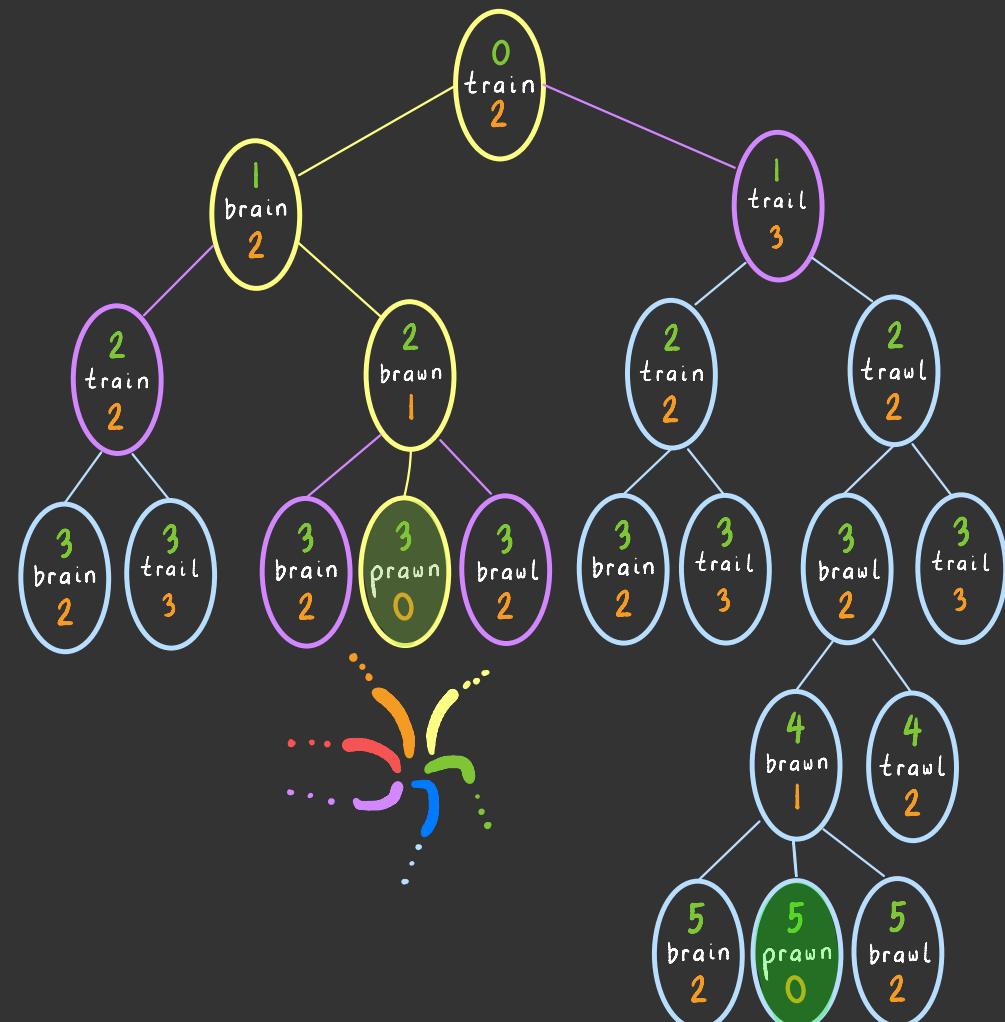






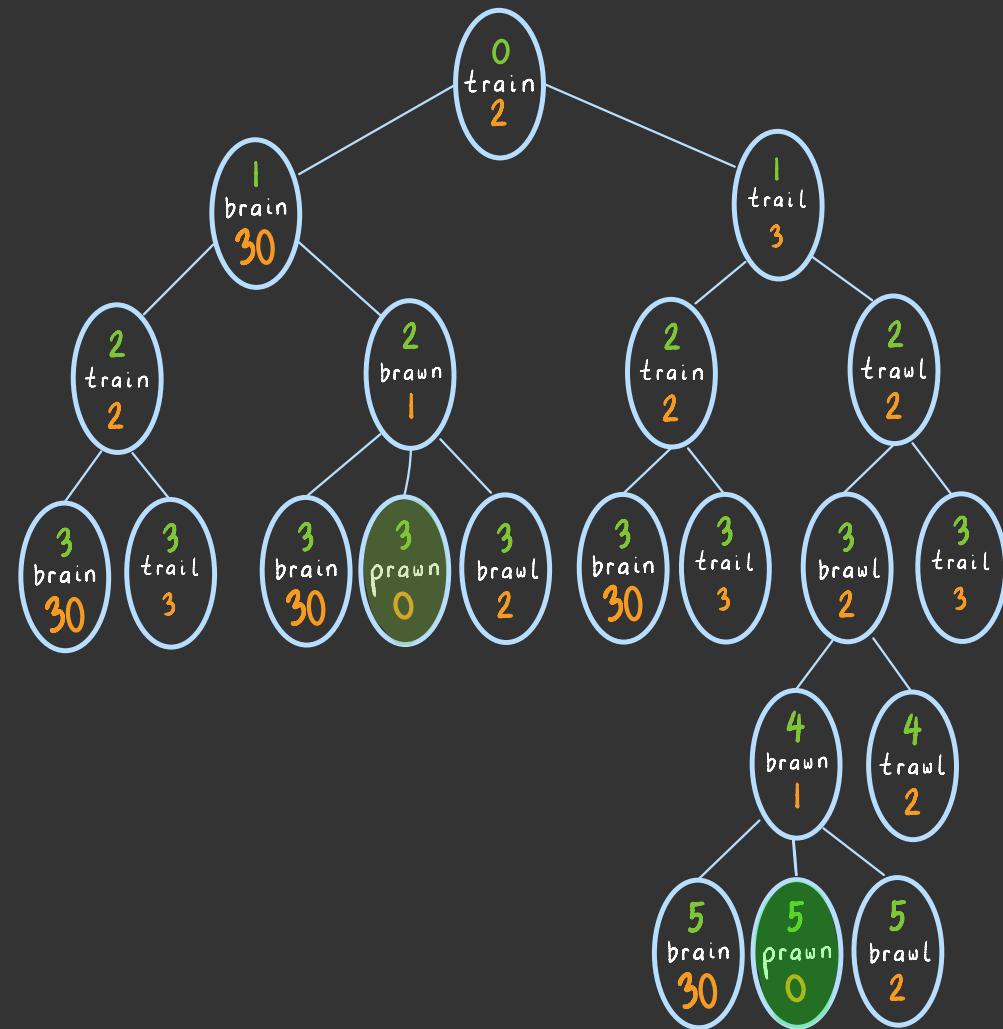
Search with this  
container is called

A\* search

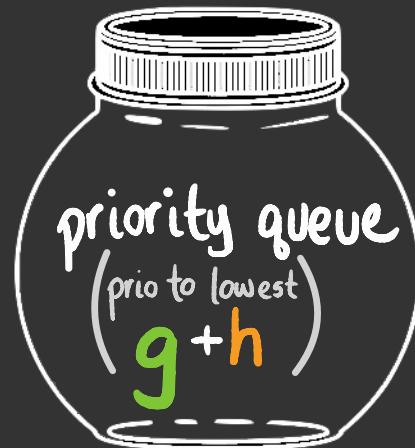
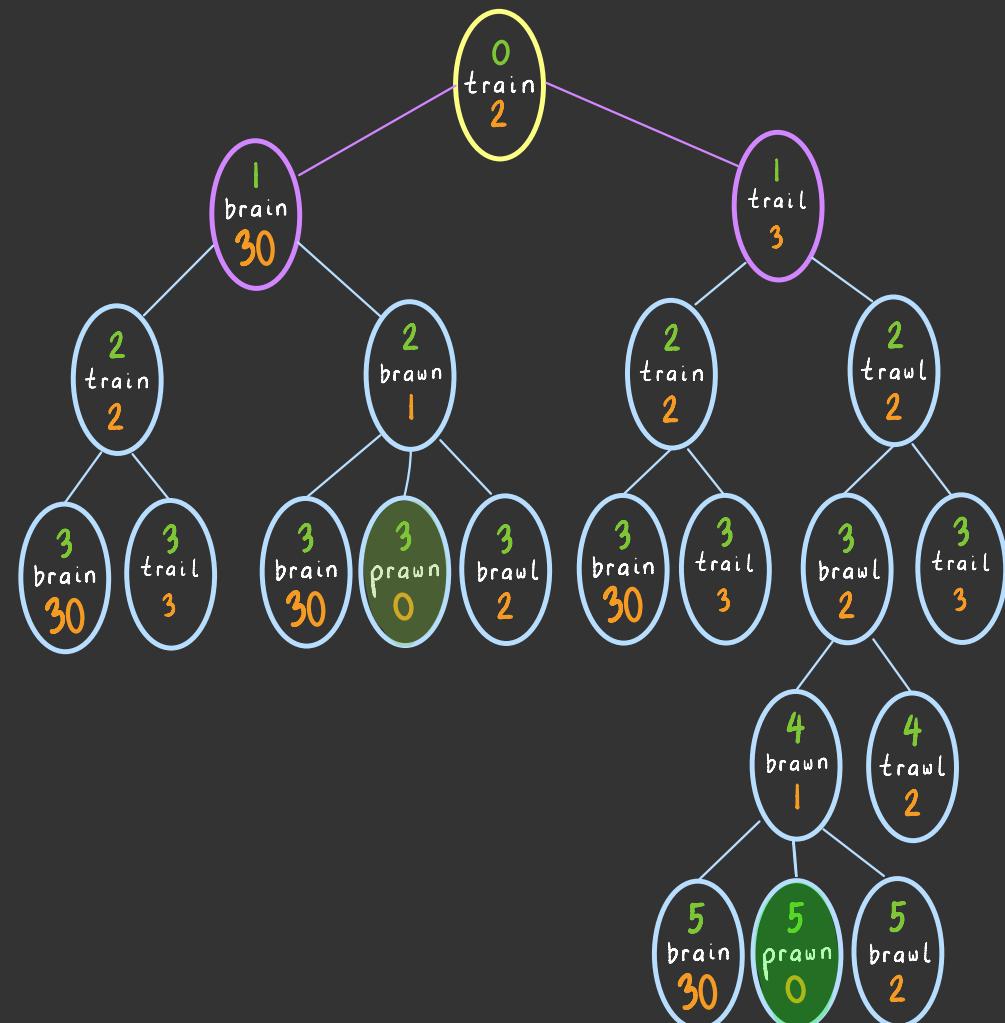


is A\* search  
optimal?

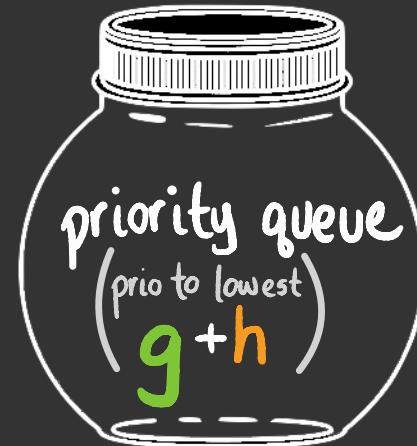
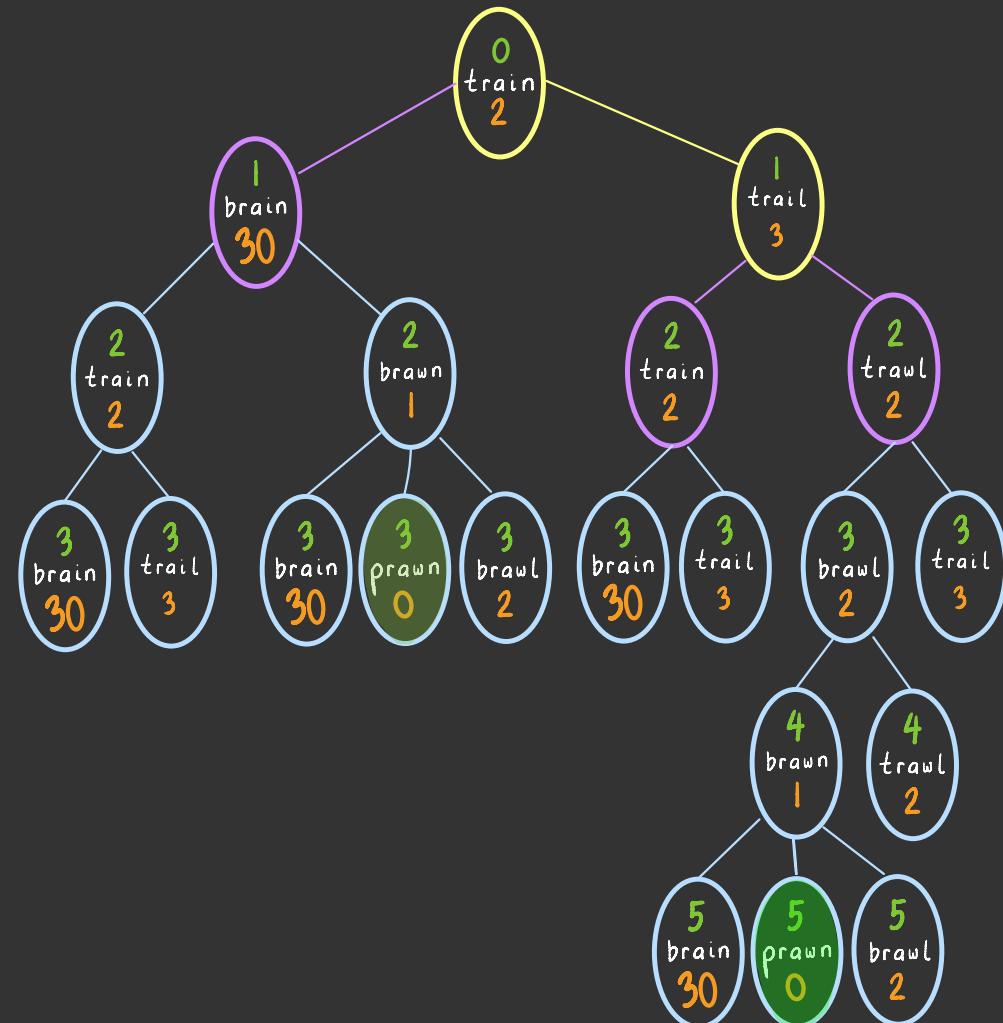
your answer here



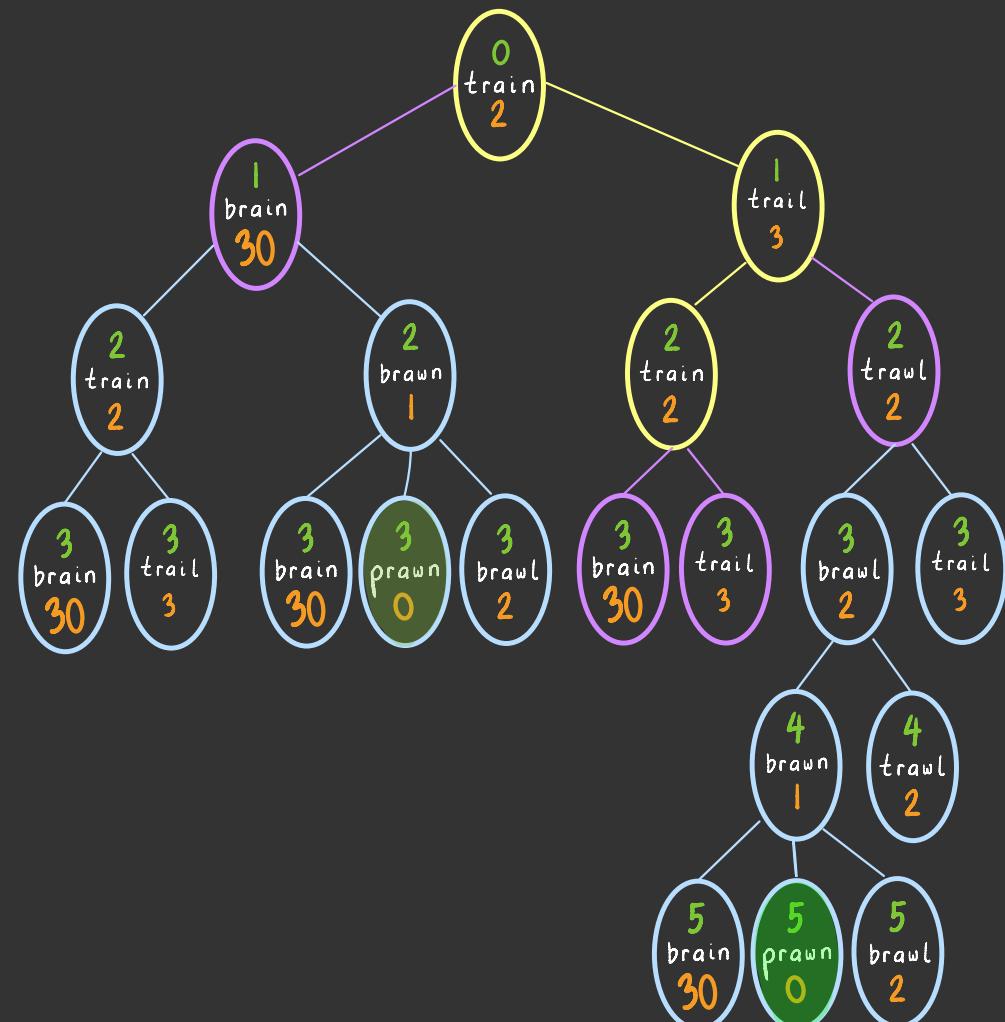
is A\* search  
optimal?  
not if we're bad  
at guessing



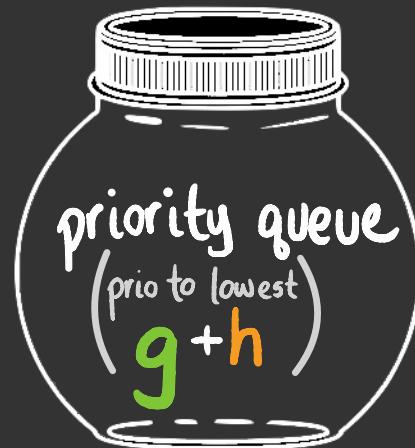
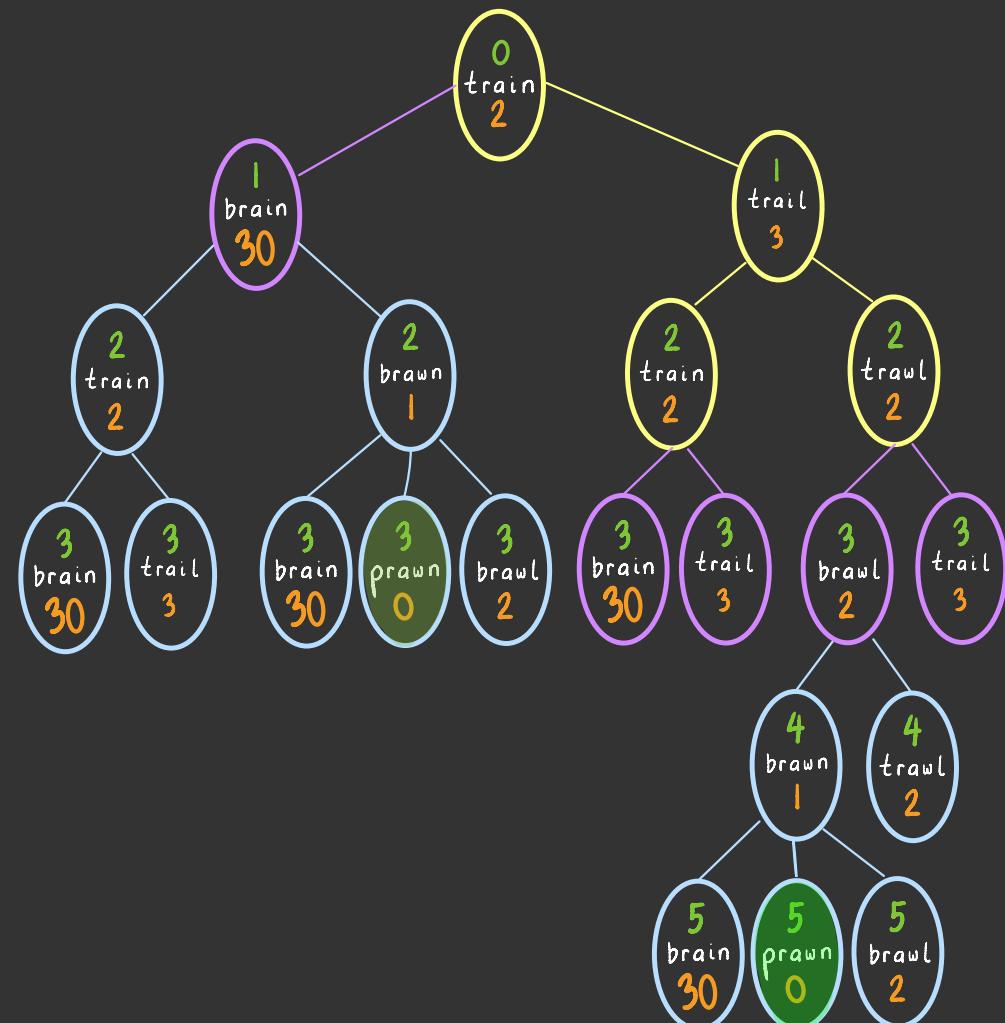
is A\* search  
optimal?  
not if we're bad  
at guessing



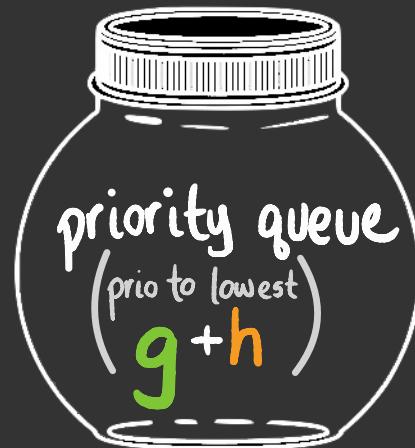
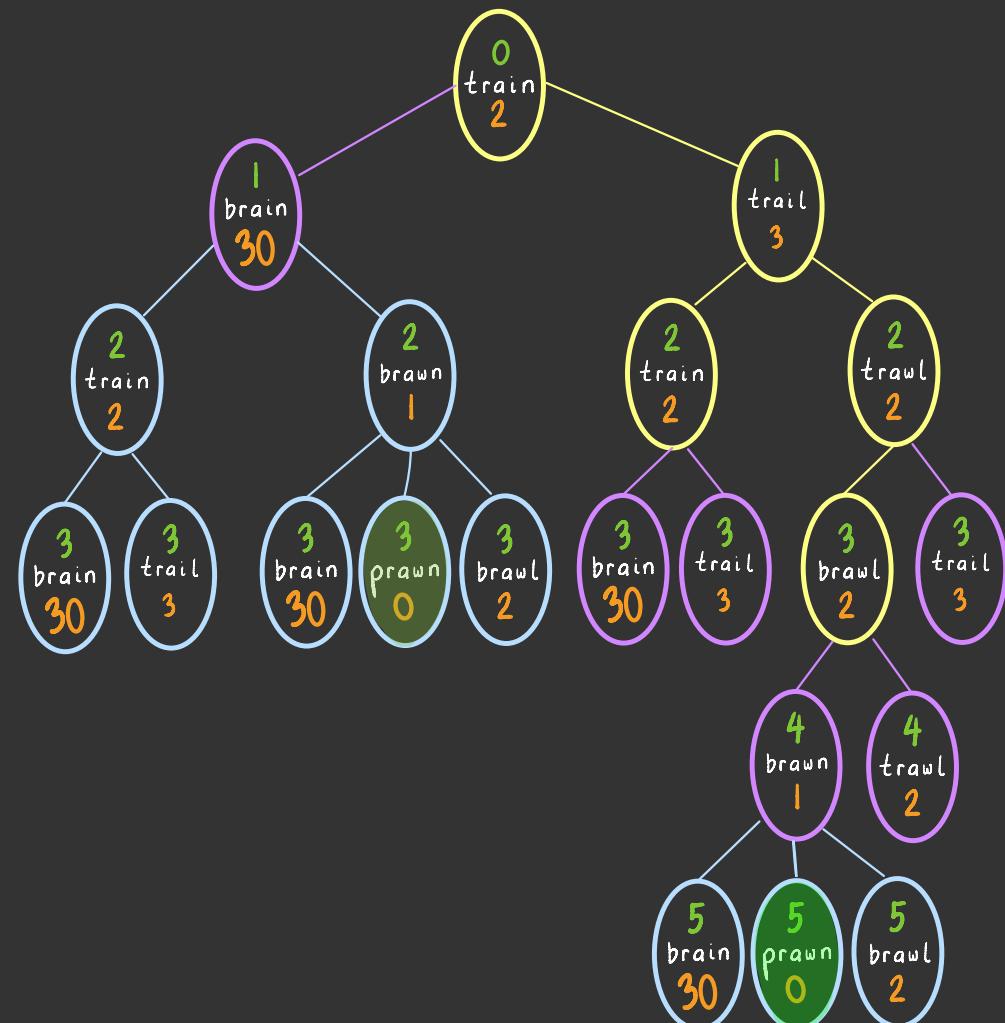
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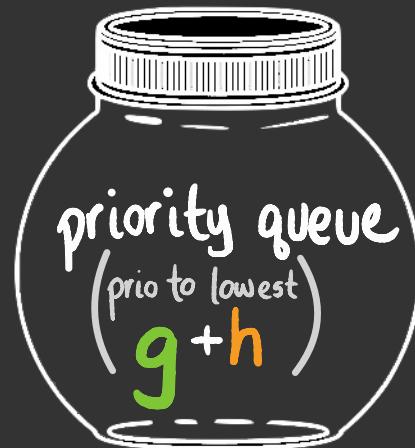
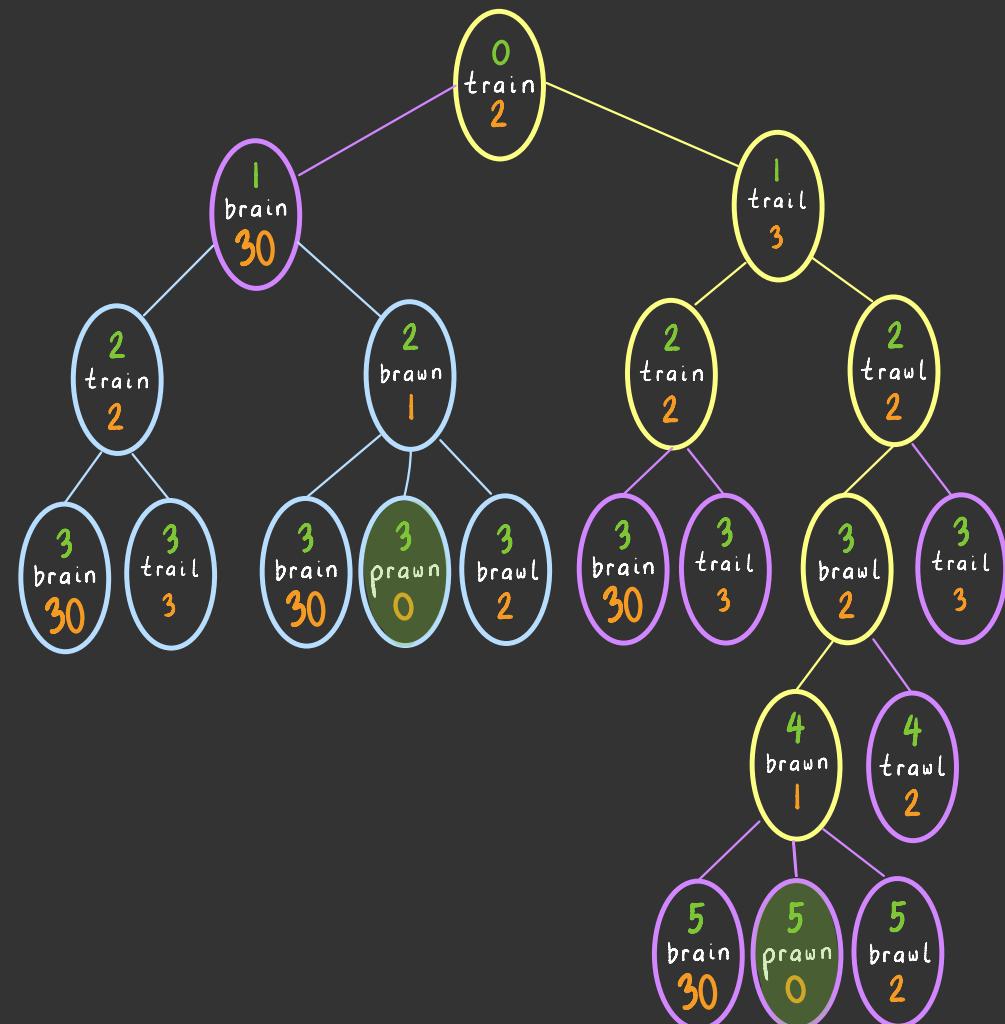
is A\* search  
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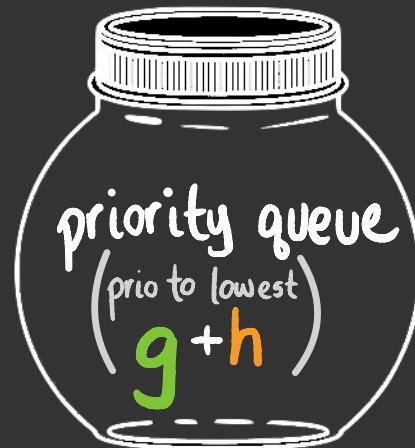
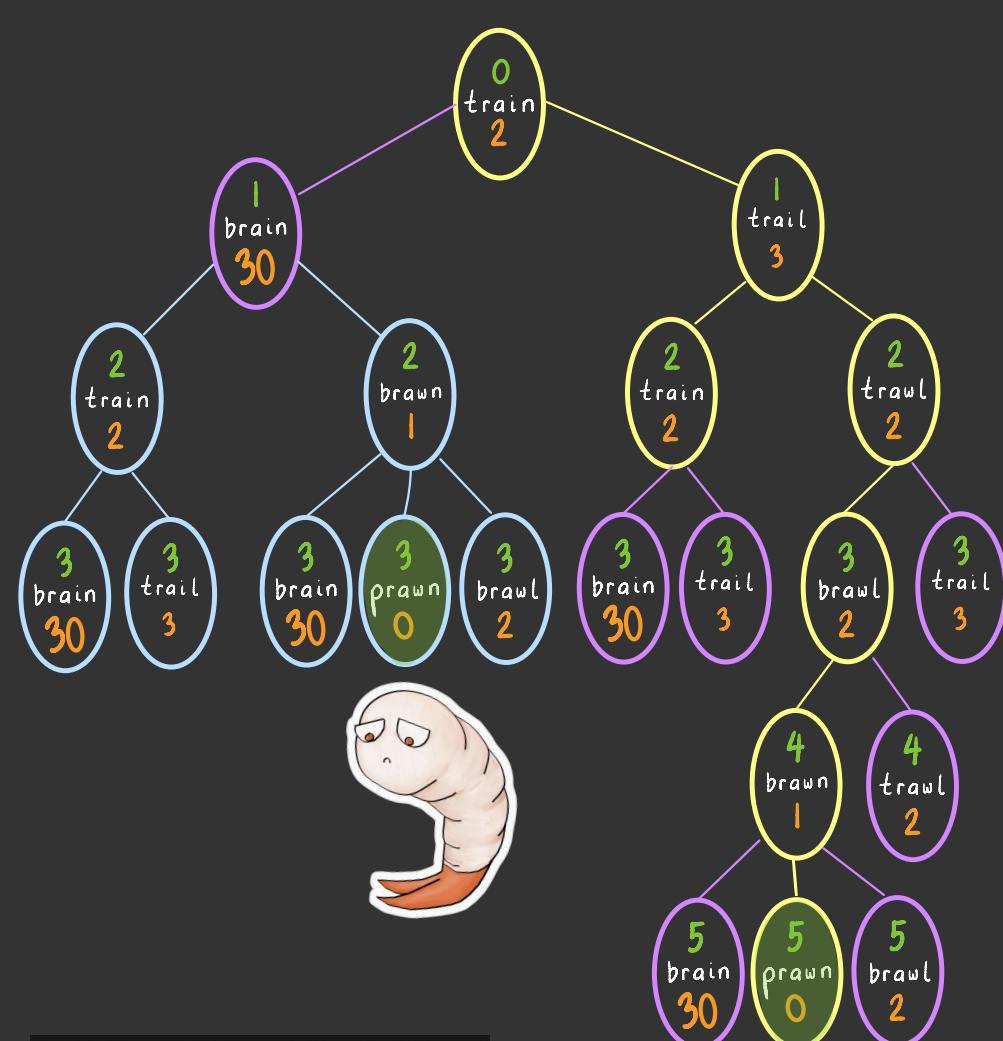
is A\* search  
optimal?  
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