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Date

AI Exp-3

Postlab

Time complexity of water Jug Prblm?

In worst case scenario, we would need to visit every possible steve to find solution feat \$1ede has six possible next steves so branching featuris is 6. .. T. e is exponential 0(6°d)

why DIS not used for solving weter jug problem?

A DIS IS not typically used for solving weter

jug prolim efficiently becord DIS tends to

search duply into search spew by considering

other branchs. In water jug prolim, the search

space can be large to DIS may end up

exploring a large portion of it before finding

a soluting, which can be inclicited. The

water jug prolim involves finding a seg of steple

to measure out a certain volume of weter

using jug of capacities. The stack space in

prolim consists of an possible combineations

of water levels in jugs while bis can be

used to solve the prolim.