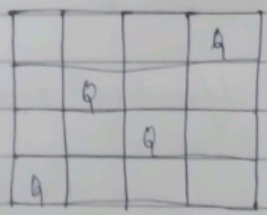
→ Implement hill climb algorithm.

Algorithm:

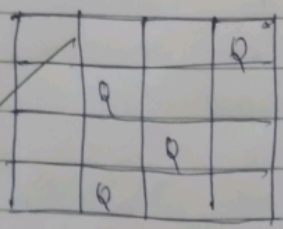
function hill climb (problem)
return a solution (or) failure
current ← node with state = problem. initial state
loop do
neighbour ← a highest valued successor of current
if neighbour . value <= current . value then
return current // return current state as solution
current ← neighbour

Solution :-

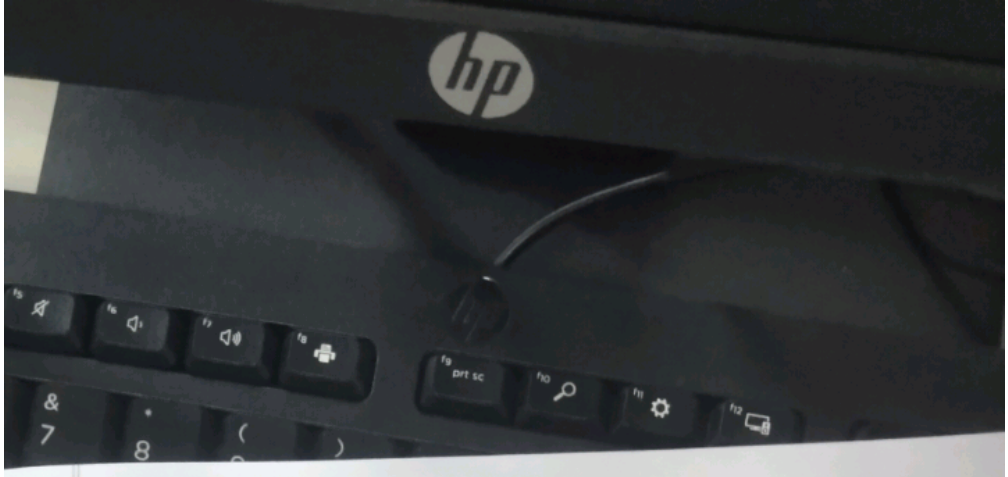


h(n) = 2

h(n) = 8



h(n) = 3



classmate

Date
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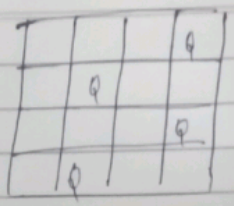
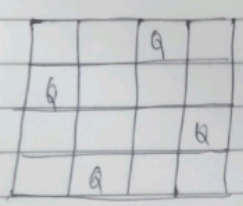
$h(n) = 1$



$h(n) = 2$



$h(n) = 0$