RL Quiz 4

The value of any state under an optimal policy is ___ the value of that state under a non-optimal policy. [Select all that apply]

1 point

- [ ] Strictly greater than
- [x] Greater than or equal to
- [ ] Strictly less than
- [ ] Less than or equal to

$\pi_*(a|s) = q_*(s, a)$

Option 1

$\pi_*(a|s) = \max_{a'} q_*(s, a')$

Option 2

$\pi_*(a|s) = 1$ if $a = \text{argmax}_{a'} q_*(s, a')$, else 0

Option 3

optimal policy always gives action which maximises the next state action value

Clear selection

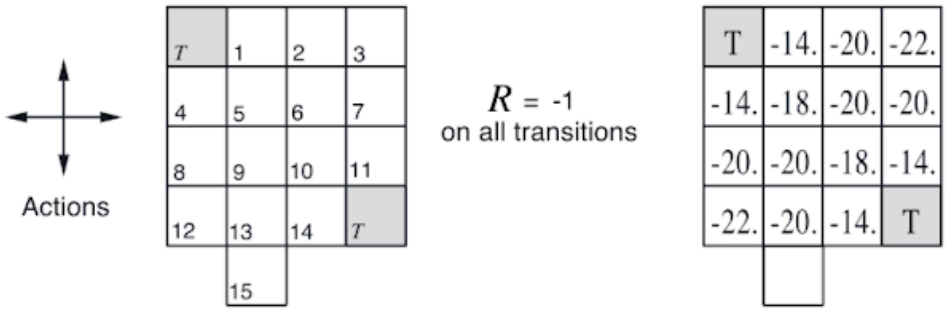
If a policy π is greedy with respect to its own value function vπ, then it is an optimal policy. 1 point

True

False

Clear selection

take the agent off the grid in fact leave the state unchanged. The right half of the figure shows the value of each state under the equiprobable random policy. If π is the equiprobable random policy, what is q(7,down)?



- q(7,down) = -14
- q(7,down) = -20
- q(7,down) = -21
- q(7,down) = -15

q(7,down) = -1+1(-14) = -15
Use Bellman's equation for state action in which right side uses value of state

Clear selection

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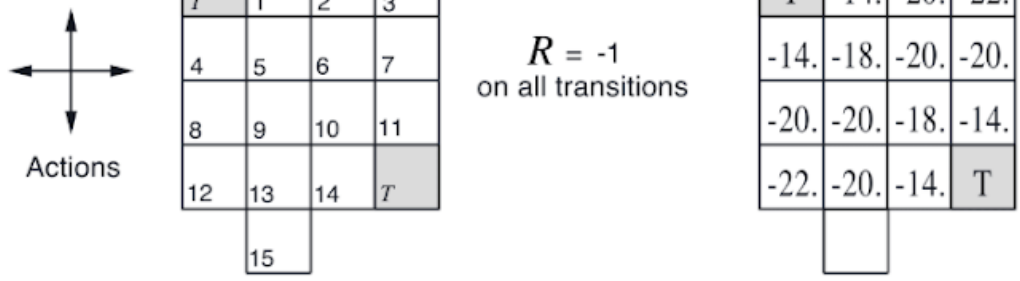
take the agent off the grid in fact leave the state unchanged. The right half of the figure shows the value of each state under the equiprobable random policy. If π is the equiprobable random policy, what is $v(15)$?



- [ ] v(15) = -25
- [x] v(15) = -24
- [ ] v(15) = -23
- [ ] v(15) = -21
- [ ] v(15) = -22

v(15) = 0.25(-1+1(-20)+0.75(-1+1(v(15)

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