

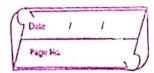
(Ex:5.3) 2. Backup diagram for Monte Carlo Estimation of 97: Monte carlo diagram shows only those sampled on the one episode, and it goes all the way to the end of the episode Also, estimation for each state are independent, i.e., they don't bootstrap.) 9x (ASt, At) (Ex:1 Sttl A++2 5 St+2 terminal state (Ex: 56) 3. Eq 5.6: $V(s) = \underset{t \in T(s)}{\Sigma} \int_{t:T(t)-1} G_t$ - (c) St: T(t-1) In terms of g(s,a) 0(s,a) = \frac{z}{tc y(s,a)} St:T(t)-1 Gt / \frac{z}{tc y(s,a)} St:T(t-1) where, 4(s) is the set of all time steps in which states is visited T(t) is the time of termination I is the importance sampling ratios. (Ex:6.2) (Ex 5. Since only the initial state is different & me expect in general , that episodes will be same later in the episodes while moving to new building or parking lot, hence temporal difference would be better than Mc

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	Since many states are some in the episode, value state function estimates for these states would be close to computing when we start afresh from new building starting with good initial guess and hence results in faster convergence.
(Ex: 6.3)	Considering the example 6:2 $V(S_1) = V(S_{121}) + d(\Gamma_{1+1} + V(S_{1+1}) - V(S_1))$ $= V(S_1) + 0.1(\Gamma_{1+1} + V(S_{1+1}) - V(S_1))$ for state P $V(P) = V(P) + 0.1(\Gamma_{1+1} + V(P) - V(P))$ $= V(P) + 0.1(O + O - V(P))$ $= V(P) + 0.1(O + O - V(P))$ $= 0.5 + 0.1(-0.5)$ this shows if we take left action in our random walk then we decrease the state value function
-	by 0.05.
(ex:6.)	Small values of & helps in convergence both for temporal difference and Monte Carlo. So Also small value of & is better than large value because if it causes faster learning and hence lower error. Hence the & values give similar results in both the algorithms. Hence we can't generalize which & is better for which algorithm.
	Since & is large enough, it causes more change in the state value function for each timestep. Thus temporal difference is neavily dependent on specific returns. This rescuts in downfall of RMS error in the graph initially and then up. It smaller values of & learning takes longer & hence is less sensitive to specific random step. But if the initialization

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	of value state generales linear relations about the updates
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	-terminal state.
(CA . 6.12)	10 3kb 7 10 (m)
8.	9-learning updates of function le
	9-learning updates of function first as 9-learning is off policy algorithm but SARSA is on policy and it chooses A and s and then updates the 9 function. Q learning selects A and s in the next iteration derived from a function
	s and then updates the & function of law in the
	and s in the next iteration derived from q function.
	Hence they do not have same action selections and 9
	updates.
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