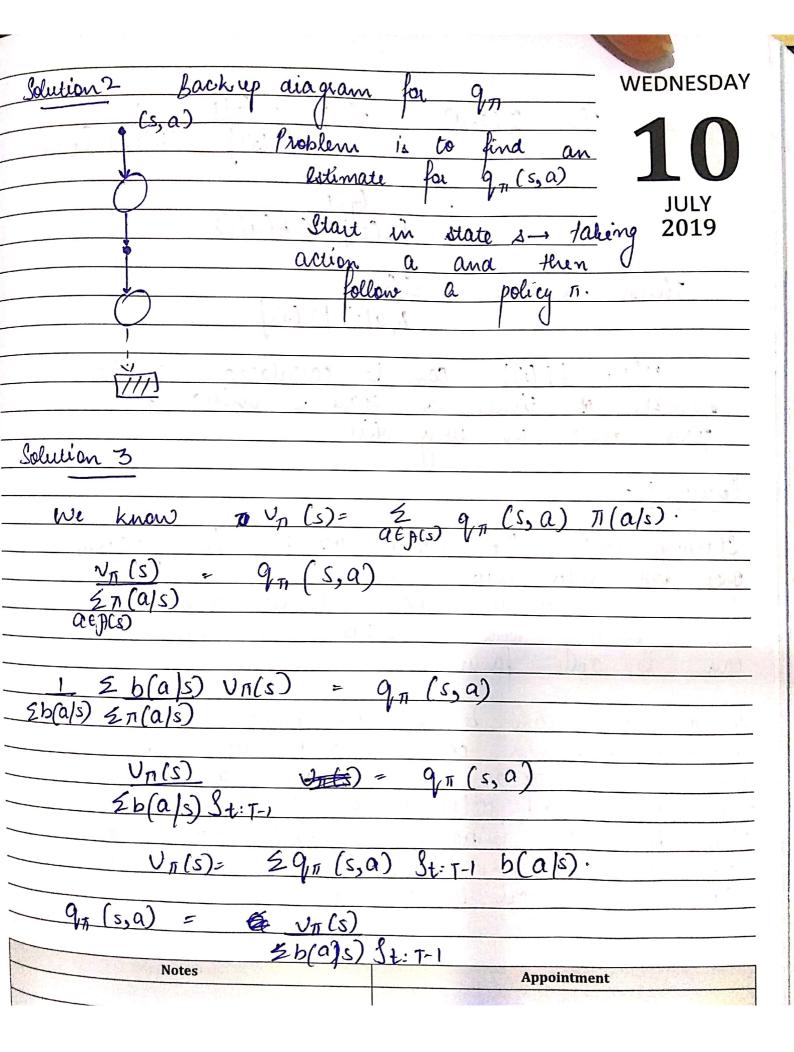
Theory Answers
TUESDAY
Solution
Initialise:
JULY $\pi(s) \in S(s)$ $\forall s \in S$.
2019 Q(s,a) ER, & ses, at A(s)
Returns (s,a) = empty lid & SES, a efics).
howart-t & ba sero array & SES, GEAGE
Random Choose So, Jo
Generate an episode So, Ao, Collowing
G < YG+ R+1
Unless the pair St, At appears
Q(s,a) = Q(s,a) + 0.1 (9-2 Q(s,a))
Returns(s, a)
idx - np. aigmax (Q(s,a))
seward-t [S] = seward-t[S]+
Seward-t[S] = reward-t[S] + [G- reward-t[S]
Calculating episode (9- Neward-CL-5
mean
incrementally.
to the list Relains (s, a) + Reward-t[5]
Thus Q(s,a) is incrementally updated with seturns
for each state
and setums take the mean value of G
and stores it, calculated incrementally.
Notes Appointment



HURSDAY		1	1111111111111	
4 4	Thus Q(s,	(9) = 2	SUT-1 61	11) 1 1 26(0/5) Sun
			1762	2 b(a/s) July
JULY		s 6	(t)	
2019		1 ITCO	(1) 25(a):	5) .
70.	01: 03	January		
Inus	Q(3,0)=	264	1760]	
www.bor	re / [W]	Can be	colculate	d as the
FUNT	JULY OL	wey vail		anea jog
Solution 5 -				
Starting	with the	problem	described	in question,
once that	ents int	os la new	building,	some of
Property of the Control of the Contr	thousand s His gritable	23.0. 1/1/3/15	will be	same,
can be	and for	Ju.	ial ques,	conseigence
Similar v	Yau to	L		The state of the s
a cham	1			delivery in
delivery,	toppy wh	les can I	· Siane	lays will
When pac	bets and co ith an in	111	on the	chen side
there par	the second secon	44	Down for	values of
1	of w cont	be seen	Marten see	we out
condition of the National Association (Ed.) and a second s	Notes		The second secon	Amalumuni

Solution 6.5
SATURDAY
The approximate value functions are
initialisted as 0.5 for all states and
I o far the terminal states.
JULY
2019 RMSE = V(true value-
estimated value)
with higher &, the agent will be pushed
more touchas the terminal state in starting
but wentually the fluctuations will start
due to same value for all states and
RMSE becomés more due to high a.
Large value of a implies may of V(s) is
Lyddid at each timestep. Thus TD(0) becomes
heavely dependent on the Neturn of cooperation
of Ospecific random walk seguence.
Ht' smaller &, although leashing take
time to do but is affected to
at any time step.
Solution 8
Suppose action selection is greedy
then post lack time step.
action < arg max Q(s'a)
which will be Chosen for next exists
rection well to splace.
se same lalways.
Notes
Appointment