Amol

3	1 1	5	e 1	Plajala,a)
high	search	high	rsearch	×
high	search	love	Eseauch	1- d
high	wait !	weeter Right	r wait	1
love	search	high	-3	1-B
low	search	low	I search	β
love	wait	love	2 west	1
low	recharge	high	0	1

If s = high, we can search or writ & get dorresponding rewards If is = low, we can esearch, went or recharge. If we search, Then, we can drain the lattery & have to be reserved; we get -3 reward. If we choose to recharge, then we get 0 reward & thankition to high state.

$$V_{*}(\lambda) = \frac{1}{\alpha \in A(\lambda)} V_{*}(B, \alpha) \qquad \forall \lambda$$

new hewards are -

R++1+C, R++2+C. Gy = (R++1+c) + Y(R++2+c) + Y2(R++3+c)+... = (R++ YR++2+ Y2R++2+--)+-e+ YC+Y2+-...

> Gt = Gt + = C

As Git is changed by a constant term (As v(s) = E(6i+)

> salue of the states is increased by " Vc . pv/4= p(s) + Vc

Now, Gt = R++1 + YR++2 + ---- Y R++N Let N= spisode length Git= (R++1+c)+ Y(R++2+c) --- YN-(R++N+c) $\Rightarrow GH = GH + C\left(\frac{1-Y}{1-Y}\right)$ This would charge the task, as G+ defends on existed length N. (3+1) = E | R++1 + 4 VT (5++1) states. To both of these we add different constants according to N. If N is small, salve of all states though by less amount them for states with large N.