The limk between an offimal value and plicy I'm an offimal Q-Table we also have an offind folicy because we know what is the best action to take in each state. T*(5) = ang max Q*(5, a) But, in the beggining, our Q-table is useless since it gives artitiony Values. As As the agent explores the environment and we update the Q-table, it will give up better and better affroximations to the affirmed policy Q-Learning algorithm Import: folicy T, mon-episodes, L, GLIETE; 7 Output: Value function @ Initialize Q-table (all Ø's) from i = 1 to mum - Misodes do EEE; Observe So 160 refeat Choose action A+ using policy delived from Q (E-greats) Take action At and observe R++1, S++1

Choope action At using folicy delived from Q (E-greedy)

Take action At and observe R++1, S++1

Q(S+, A+) < Q(S+, A+) + Q(...) (u) Enfe shale-action fair)

+ <- + +1

Until St in terminal

len 2

neturn Q