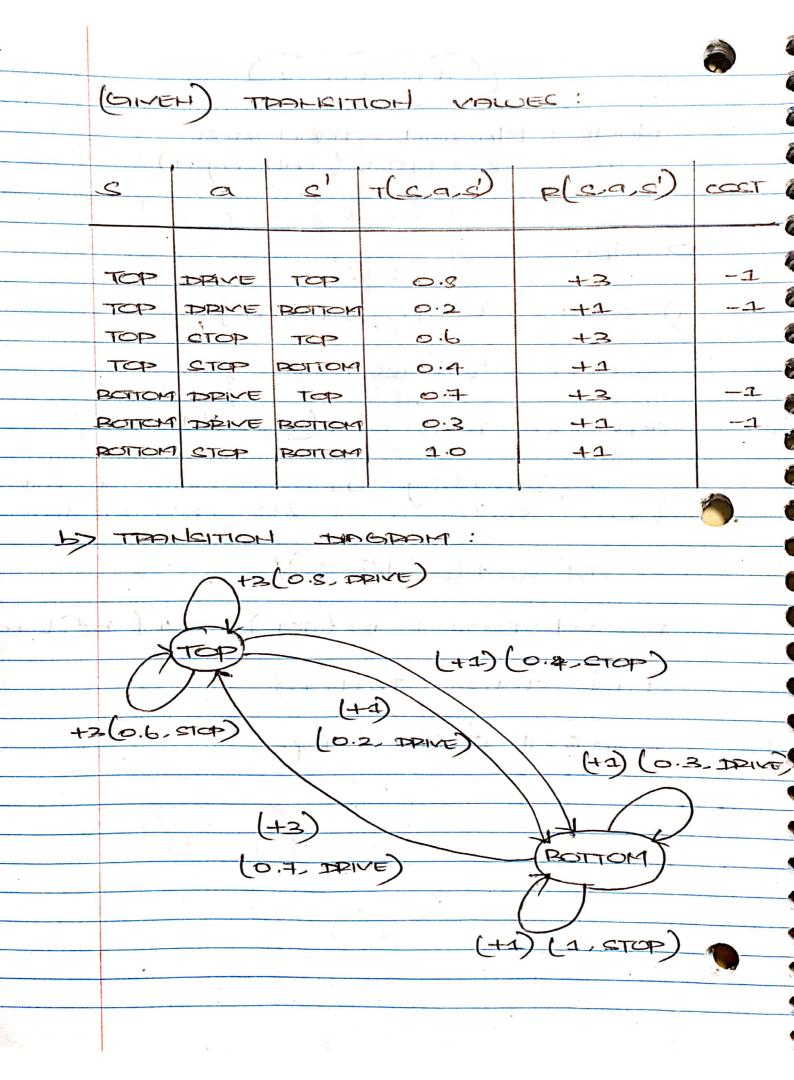
APTIFICIAL II) TELLIGET LE CS 565 HOMELLORK - 2 HAME: MADHAN THANGAVEL ID: B00824926 (mthonga2) a) states: 2 Top Bottom } Action: & DAINE, GTOP 3 Forseition Forc : T(c,a,s')> paobablity that action - a taken form state -s reads to state -s! re: p(s'|s,a) personed Fine: +3 (Top), +1 (bottom) dast state : Pottom Tesminal state : Top



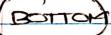
YETA (c) < Max & T (C) FR(s,a,s) let as compute val Va(c) = MODE [0.8 (2-1)+0.2 (

vole) = Max [0.8 (20.8 (3-2) +0.8 (2.2)) (+0.2 (0.8(A)), 0.6 (3-10.8 (2.2)) +0.4 (31+0.8) = Max [(0.8 (3.76) + 0.26), (0.6 (4.76) xdx = MOC [3.268, 3.276] = 3 (276) MCC) = Masc [0.7(12-1)+0.8(14)) +0.3(1-1+0.8(1.4)), 2 (1+0.8 (1)) = Max [ (1.4+1.12)+0.3 (1.12), = Moc [ = .88, 1.8 5.88.11



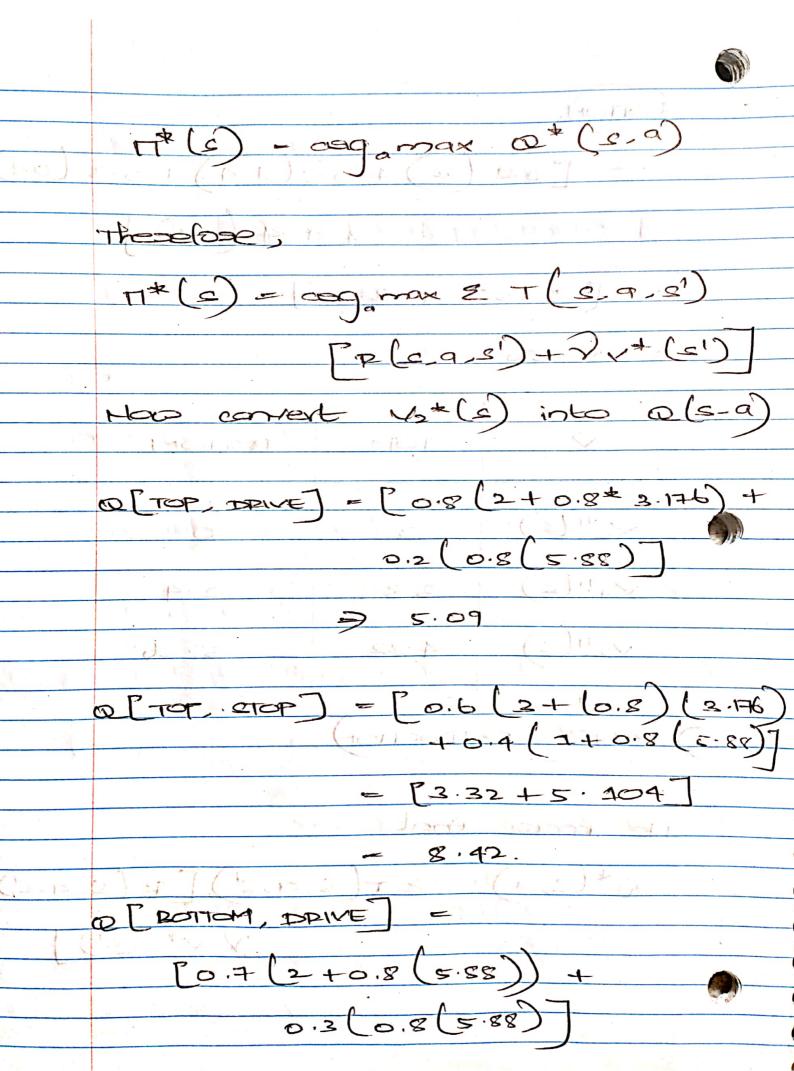


$$= 0.8 \left[ (3-1) + 0.2 \left( 0 \right) + 0.6 \left( 2 \right) + 0.4 \right]$$





	,			
	POTTOM.			
	= [0:7(2)+08(14)+0:3(08) + 1.4(2.8)			
1			7	
. (	= 2.53	2 4 3.04	3 = (2)*IT 1	
1 /1.	1=1 5.56	. 1		
	2.20.	- P. J. St. J		,
(10 =1	() ( ) ( ) ( )	1 = 1	and a	
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1 (4)	1 2 7 2 0 1 0	1000 ] -/	WERT SPORTER	
	40 TLS)	0	0	
		3) 55	7 7	
·	Van(s)	3.8	2.4	
	127(s)	4.20		
	V2 (C)	4 32	5.56.	
J-1-2" )	(20) +2).	101-1	7010. 70110	
100 E	POLICY EX	CTRACTION		
	/			
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	HE know	that		
	0*1.			
	Q (e,a)	= 2TCS	,a,s')[R(s,a	ナノシィ
		3718	2 Vx (cl)	
	4 1/10	20)201		<u></u>
	The state of the s			
	The state of the s			



= [a.69 + 1.42] @[BOTTOM STOP] = [1 (1+0.8 (5.88) -> 15.70 million and 1 +(s) = and mon & +(s' s,a) v(s') where o(c\*) = P(c) + 7 max & p(c'/sa ( Line ) my -: ( Le L) madaya TI\* (TOP) = agrick [ or [TOP, DRIVE], 1000 5.09, 8.42] = 8.42 (Stop) 11 (BOTTOM) = cog max ( & DOTTOM APRILE) Q [BOTTOM, STOP = 00gmax [ b.20, 5.70] = 6.20 (prive)



Hence the policy

rit(s) - 2 stop, police y in this

iteration

2) MAP COLORING

a) code secds

reighbores (y,x):- ooc (x, y)

Bbox 7://

2 2 colon (x, c): colors (c) 3

1: - courtsies (x).

all the country has exactly one colour with aggregates.

color (x, sed) (colors (x, green)

(colon (x, while)

:- cartaics (x).

b) not represents two courbies and have come colors. If x is the country and C is the colon, then it is contract that country is having about it has beening a coloa. c) idher reighbour sules one It thouse on esson / soming "atom does not occus in ory when the action is not pestooned, were the dingo not present. stating atom