Homework

Find Nash equilibrium(s).

Bob

Alex		A	В	С
	A	<u>8</u> ,7 >	> 7, <u>10</u> <	5,4 V
	В	0,3	> 5, <u>5</u> <	6,4
	С	2,5	7 4,2	3,7

Find the mixed strategy Nash equilibrium

- The Battle of Sex game
- Bob and Alice are lovers. They are now deciding what they are gonna do in the coming Sunday. The choices are to go to the boxing game or shopping.
- Find all of pure NEs and mixed-strategy NEs.

Anna

Tom

Boxing Shopping 2,1 0,0

Shopping 0,0 1,2

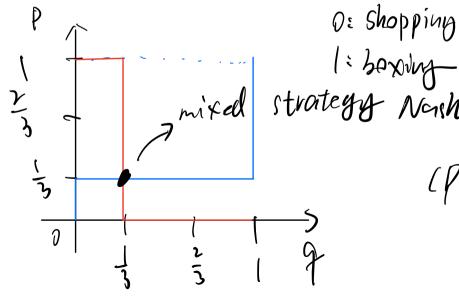
Pure NE case: (Boxing, boxing); (shopping, shopping)

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		Anna ₽	1-Plom's Revend
		Boxing	Shopping
Tom	Boxing 9	2 , 1	0.0 = 2p + 0x(1-p)
	Shopping	0,0	1,2 OXP+ 1X(1-1D) = (-P
	Annais where	9×1+((-9)×0 =29	5×0+ (1-4) ×1 =1·9
	1	229	=1.9

it 2P>(-P=)P>=, Tom better hoxing if $2P < |-P| \Rightarrow P < \frac{1}{3}$, Tom better Chopping if 2p=1-p=> p=== , Tom vondomizes. if 29 >1-9 => 9 >3, Anna hetter boxing if 29<1-9 => Fet, Anna better shoppy if 29=1-9 => 9=3, Ama random/20%,



1: boxwy mixed strategy North Equilibrium.