Thursday, October 1, 2020 10:22 AM

Passed Saluk Fon Neview

Compute the Nash equilibria of the following location game. There are two people who simultaneously select numbers between zero and one. Suppose player 1 chooses s_1 and player 2 chooses s_2 . If $s_i < s_j$, then player i gets a payoff of $(s_i + s_j)/2$ and player j obtains $1 - (s_i + s_j)/2$, for i = 1, 2. If $s_1 = s_2$, then both players get a payoff of 1/2.

$$S_{\xi} = X \qquad S_{5} = Y$$

$$\frac{(X+Y)}{2} = 1 - \frac{(X+Y)}{2}$$

$$\frac{\lambda(X+Y)}{2} = 1$$

$$\lambda(Y+Y) = 1$$

and woulf deviate