ECO4010 Tutorial 12

1. Consider the following simultaneous game of incomplete information where player i's type is t_i , which follows uniform distribution on [0, x] for x > 0.

	Opera	Fight
Opera	$2 + t_1, 1$	0,0
Fight	0,0	$1, 2 + t_2$

Construct a Bayesian Nash equilibrium. Hint: assume threshold values that divide the types into the two actions.

- 2. Find the symmetric equilibrium in 2-bidder "losers-pay" auction, where the highest bidder wins the object and the loser must pay his bid. The winner pays nothing. Using the general bidding strategies, find the seller's expected revenue in the 2-bidder, U[0,1] case.
- 3. (Optional) There are N bidders with their valuation v_i i.i.d. distributed on $F(\cdot)$, $v_i \in [\underline{v}, \overline{v}]$. Find the symmetric equilibrium in an all-pay auction directly.