1) 
\[ E(G) = 0.5 \ (1,000) + 0.5 \ (0) = 500 \]
\[ E(I) = 0.5 \ (1,100) + 0.5 \ (100) = 600 \]
\[ 500 > 50 \text{ so pick CG} \]
\[ E(C) = 500 \]
\[ 600 > 150 \text{ so pick EI} \]
\[ E(E) = 600 \]
\[ E(A) = 0.9 \ E(C) + 0.1 \ E(I) = 0.9 \ (500) + 0.1 \ (500) = 455 \]
\[ E(B) = 0.4 \ E(E) + 0.6 \ E(F) = 0.4 \ (600) + 0.6 \ (450) = 330 \]
\[ 455 > 330. \text{ Choose RA.} \]

Choose RA, EI, CG with payoff 455.

2) 
At A
\[ 4>3 \text{ so player 2 choose AF.} \]
At B
\[ 3>2 \text{ so player 2 choose BH.} \]
At D
\[ 3>2 \text{ so player 1 choose DK.} \]
At E
\[ 4>3 \text{ so player 1 choose EL.} \]
At C
\[ 5>3 \text{ so player 2 choose CE.} \]

At R
\[ F(1,4) \ H(5,3) \ L(4,5) \text{ so player 1 choose RB.} \]
Outcomes is R→B→H. Payoff (5,3).