- (a) [A:51, B:51]
- (b) 51 is a strictly dominant strategy for A.
 [: A: 51]
- There is no always better strategy for B regardless of what A plays.

 For instance, if B plays SI, then [A:SI, B:SI] is the best. However, if A switches to S2, then [A:S2, B:S3] is better than [A:S2, B:S1] for B.
 - ... B has no stricty dominant strategy.
- (d) $[A:51, B:51] \Rightarrow [A=5, B=9]$ There is no other olltcome that A and B would prefer.

 : Pareto optimal outcome = (A=5, B=9)
- (e) Since there is a pure Nash equilibrium, this game is not a zero-sum game.

$$3^{-5}\rho = 9_{\bar{p}}4 \Rightarrow 7 = 14\rho \Rightarrow \rho = \frac{1}{2}$$
 [: [51: $\frac{1}{2}$, 52: $\frac{1}{2}$]

$$\begin{bmatrix} \cdot & -\frac{1}{2} \end{bmatrix}$$