Exercise 10 (Multi-stage game). Consider the game in extensive form in Figure 1.

1. Compute the value and a behavioral saddle-point equilibrium for this game.

   *Hint: use the procedure outlined in Section 8.5.*

2. Compute the matrix form representation of the game, its pure security levels, its mixed value, and a mixed saddle-point equilibrium.

   *Hint: The matrix form representation of this game is fairly large (32 × 64), so it is worth writing a MATLAB® script to help you compute it.*