Dining Philosophers Drill

Check the correct answer or answers for each question below:

1. What is the result of SOLUTION 1?
   - ______ deadlock
   - ______ livelock
   - ______ violation of mutual exclusion
   - ______ success

2. On what instruction(s) can it get deadlocked or livelocked?
   - ______ if (chopstick[i] == 1)
   - ______ chopstick[i] = 0
   - ______ if (chopstick[i+1] == 1)
   - ______ chopstick[i+1] = 0
   - ______ none of the above
   - ______ all of the above

3. What is the result of SOLUTION 2?
   - ______ deadlock
   - ______ livelock
   - ______ violation of mutual exclusion
   - ______ success

4. On what instruction(s) can it get deadlocked or livelocked?
   - ______ P(chopstick[i])
   - ______ pick up left
   - ______ P(chopstick[i+1])
   - ______ pick up right
   - ______ none of the above
   - ______ all of the above

5. What is the result of SOLUTION 3?
   - ______ deadlock
   - ______ livelock
   - ______ violation of mutual exclusion
   - ______ success

6. On what instruction(s) can it get deadlocked or livelocked?
   - ______ P(mutex[i])
   - ______ pick up left
   - ______ P(mutex[i+1])
7. What is the result of SOLUTION 4?

- deadlock
- livelock
- violation of mutual exclusion
- success

8. On what instruction(s) can it get deadlocked or livelocked?

- P(table)
- P(chopstick[i])
- pick up left
- P(chopstick[i+1])
- pick up right
- none of the above
- all of the above
Dining Philosophers Answers

Check the correct answer or answers for each question below:

1. What is the result of SOLUTION 1?
   - deadlock
   - livelock
   - violation of mutual exclusion
   - success

2. On what instruction(s) can it get deadlocked or livelocked?
   - if (chopstick[i] == 1)
   - chopstick[i] = 0
   - if (chopstick[i+1] == 1)
   - chopstick[i+1] = 0
   - none of the above
   - all of the above

3. What is the result of SOLUTION 2?
   - deadlock
   - livelock
   - violation of mutual exclusion
   - success

4. On what instruction(s) can it get deadlocked or livelocked?
   - P(chopstick[i])
   - pick up left
   - P(chopstick[i+1])
   - pick up right
   - none of the above
   - all of the above

5. What is the result of SOLUTION 3?
   - deadlock
   - livelock
   - violation of mutual exclusion
   - success

6. On what instruction(s) can it get deadlocked or livelocked?
   - P(mutex[i])
7. What is the result of SOLUTION 4?

   ____  deadlock
   ____  livelock
   ____  violation of mutual exclusion
   x  success

8. On what instruction(s) can it get deadlocked or livelocked?

   ____  P(table)
   ____  P(chopstick[i])
   ____  pick up left
   ____  P(chopstick[i+1])
   ____  pick up right
   x  none of the above
   ____  all of the above

General Questions on all Solutions

9. If there are 100 dining philosophers, how many chopsticks in the problem?  100

10. Which of the dining philosophers should win the Academy Award?

    x  #1 (Albin Norblad)
    x  #2 (Jonathan Pugh)
    x  #3 (Michael Smith)
    x  #4 (Joe Choong)
    x  #5 (Tim Barker)
    x  #99 (Russell Crowe)
    x  none of the above