Q1 Bayesian Networks
1 Point
Select all that are true of Bayesian networks.

- ✔ They model the conditional dependences of random variables as edges in a graph, where the nodes represent the random variables.
- ✔ If A and B are nodes in a Bayesian network with an edge A→B, then B is conditionally dependent on A.
- ✔ Useful for solving inference questions.
- ✔ If A and B share a parent C (with edges C→A and C→B), then A and B are conditionally independent.

Q2 Bayesian Inference
1 Point
How do Bayesian networks help us answer inference questions?

- ✔ Allows us to not calculate the entire joint probability table of all variables.
- ✔ They let us easily track conditional dependencies, which are essential for evaluating conditional probabilities.
- ✔ They increase computation time of conditional probabilities.
- ✔ We can implement algorithms that take advantage of the Bayesian networks to solve inference problems.

Q3 Check-in
0 Points
How have problem sets been? Any other feedback to help improve the course?

A bit tedious. Solving the problems doesn't take too much time, but writing the solutions up can easily take a day or two. Also, they can be a little repetitive with regard to problem solving strategies. All this together makes me feel that the ratio of time taken to complete a problem set to amount of improvement of my probability skills is far too high. As it is now, a problem set can pretty much take an entire weekend. It would be helpful if they were released a week earlier, because then I could do maybe a problem or two a day and finish the assignment at the same time that I normally would, without having to devote an entire weekend to it. Releasing the problem sets earlier would be my only suggestion.