

### Quiz 4

1. (5 points) Thomas commutes to Berkeley every day, half the time by car and half the time by BART. When Thomas drives, there is a 50% chance he arrives late, and when he uses BART, there is a 10% chance he arrives late. One day, you observe Thomas arriving late. What is the probability he commuted by car?

2. (5 points) There is a game where you roll three six-sided fair dice one at a time, and you lose if you ever roll a number less than the previous roll. What is the probability you will win?