

CSE422: Artificial Intelligence
Quiz
Fall 2024

Day	Weather	Play
1	Sunny	Cricket
2	Cloudy	Cricket
3	Sunny	Cricket
4	Sunny	Cricket
5	Rainy	Football
6	Cloudy	Football
7	Cloudy	Football
8	Sunny	Football
9	Sunny	Cricket
10	Rainy	Football
11	Rainy	Football
12	Sunny	Football
13	Cloudy	Cricket

- Form a joint distribution table from the table given above using the column 'Weather' and 'Play'.
- If you introduce another boolean random variable in the above table, how many joint distribution elements would there be?
- Calculate $P(\text{Sunny and Cloudy})$