Ali Awari

24 September 2018

Discrete Structures II

Problem Set #1.5

Probabilities of getting into a university:

1. P(Harvard) = .06
2. P(Princeton) = .067
3. P(Yale) = .045

Result:

P(Harvard or Princeton or Yale)

.06 + .067 + .045 – P(.06 AND .067) – P(.06 AND .045) – P(.067 AND .045) + P(.06 AND .067 AND .045)

.06 + .067 + .045 – P(.06 \* .067) – P(.06 \* .045) – P(.067 \* .045) + P(.06 \* .067 \* .045)

.172 - .00402 - .0027 - .003015 + .0001809 = .1624459 = 16.25%

16.25% chance of getting into either Harvard, Princeton, or Yale