CSCI 3202  
Assignment 7  
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* 1. P(c = True) = 0.48
  2. P(c = True | r = True) = 0.75
  3. P(s = True | w = True) = 0.4
  4. P(s = True | c = True, w = True) = 0.0
  5. P(c = True) = 0.5

Error: 0.5 – 0.48 = 0.02

* 1. P(c = True | r = True) = 0.8

Error: 0.8 – 0.75 = 0.05

* 1. P(s = True | w = True) = 0.4737

Error: 0.4737 – 0.4 = 0.0737

* 1. P(s = True | c = True, w = True) = 0.0671

Error: 0.0671- 0.0 = 0.0671

* 1. P(c = True) = 0.49
  2. P(c = True | r = True) = 0.704
  3. P(s = True | w = True) = 0.4
  4. P(s = True | c = True, w = True) = 0.0
  5. Error: 0.5 – 0.49 = 0.01

Difference between prior sampling and rejection sampling:

0.49 – 0.48 = 0.01

* 1. Error: 0.8 – 0.704 = 0.096

Difference between prior sampling and rejection sampling:

0.75 – 0.704 = 0.046

* 1. Error: 0.4737 – 0.4 = 0.0737

Difference between prior sampling and rejection sampling:

0.4 – 0.4 = 0

* 1. Error: 0.0- 0.0 = 0

Difference between prior sampling and rejection sampling: