

PRAI Assignment - 3

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1.1 Results

For tree queries, the probabilities are reported as follows,

$P(A)$
0.0594
0.9406

$P(W)$
0.52376
0.47624

$P(G)$
0.2297
0.7703

$P(A, B)$
0.0099
0.0495
0.0001
0.9405

$P(W, G)$
0.1315
0.3933
0.0983
0.3781

$P(G/B)$
0.6950
0.225
0.305
0.775

For bayesian network queries, the probabilities are reported as follows,

$P(G)$
0.447
0.553

$P(S)$
0.755
0.245

$P(L)$
0.5129
0.4871

P(G, S)
0.3798
0.0672
0.3752
0.1778

P(L/I)
0.0.578
0.0.361
0.422
0.639