Mark Demore II

CSCE523

Assignment #4

1.

2.

3.

Reqs for alternative form: P(H,Magic|S)P(S)P(H,Magic|!S)(P(!S)

4.

Problem 2 Verification:

FS & A observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.8836824696802645 // p(true | evidence )

0.11631753031973541; // p(false | evidence ); }

FS & !A observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.8531368821292775 // p(true | evidence )

0.14686311787072245; // p(false | evidence ); }

!FS & A observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.41497678964085016 // p(true | evidence )

0.5850232103591498; // p(false | evidence ); }

!FS & !A observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.4820381231671554 // p(true | evidence )

0.5179618768328446; // p(false | evidence ); }

Edited Rain Values, FL observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.8036196650459212 // p(true | evidence )

0.1963803349540789; // p(false | evidence ); }

Edited Rain Values, FL NOT observed:

probability ( "TS" ) { //1 variable(s) and 2 values

table

0.401 // p(true | evidence )

0.599; // p(false | evidence ); }