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# Exercícios 4.9

a)

Is not in the order of natural tree, because in natural tree the result os the test will not influence the actual result of the movie

b)

* Disaster: 17/43 = 40%
* Mill: 20/43 = 47%
* Broke records: 6/43 = 14%

c)

* Disaster as hit: 8/17 = 47%
* Broken records as dud: 1/6=17%
* It is better detecting good movies than bad ones

d)

Natural hit 5/6 = .83 .415

1/6 = .17 .085

bb .5 13/20 = .65 .195

mill .3

dis .2 7/20 = .35 .105

8/17 = .47 .094

9/17 = .53 .106

Bayes

.415

.195

hit .094

.30 .085

dud .35 .105

.35 .106

e) He should learn that the probabilit had changed, because the test is not good at detecting bad movies, the distribution of the probabilities became less clear.

f)