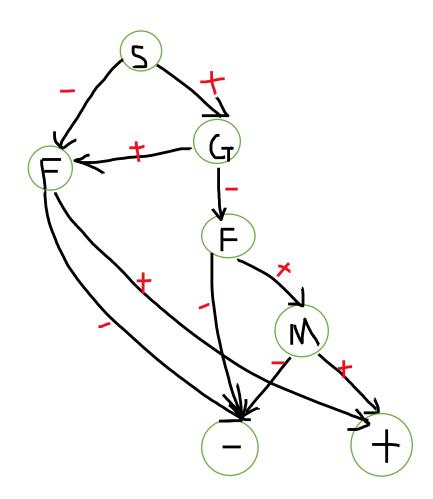
Xiaojia quan Cs161

1. Prior probability of having the disease: Pr(disease = true) >= 0.134
False Positive for the test: Pr(test = positive | disease = false) = 0.002196
False Negative for the test was not shown on the sensitive analysis.

2.



3.

(a) Prior marginal distribution for BMI and blood pressure:

	High	Not high
BMI	34.61%	65.40%
Blood pressure	45.77%	54.23%

(b) Posterior marginal distribution for 'ovet 60' assuming either high BMI or hight blood pressure:

	Older	Younger
Over 60	65.76%	34.24%

(c) MAP for blood pressure and BMI:

P(MAP, e) = 0.1348

P(MAP|e) = 0.3371

(d) MPE given both SNPs are present and casual:

P(MPE, e) = 0.007812

P(MPE|e) = 0.144668