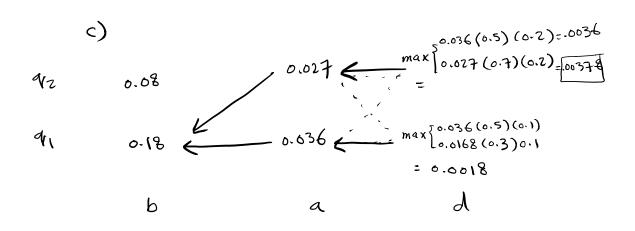


$$q_2$$
  $p(q_2|q_0)P(b|q_2)$   $+0.18(0.5)(0.3)$   $=0.6438(0.7)(0.2)_{+0.0456}$   $(0.5)(0.2)$   $+0.18(0.5)(0.3)$   $=0.666132_{+0.06} +0.6692$   $=0.0438$   $=0.016692$   $=0.0438(0.3)(0.1)_{+0.0438}(0.3)(0.1)$   $=0.00228_{+0.001314}$   $=0.0035_{+0.0096}(0.3)(0.4)$   $=0.0035_{-0.0035}$ 

p(bad)= 0.016692 +0.003594= 0.014286



most likely hidden sequence: q, qz qz P(q,qzqz 1 bad) = 0.00378