decision rule (randomized on whiteboard) P(E)= P(E(B) P(B0)+ P(E(B) P(B1) = P(A, n 40 / Bo)P(Bo) + P(Ao nAi | Bo) P(Bo) +P(A1 () A3 | B1) P(B1) + P(A0 () A1 | B1) P(13) = P(A, 1Bo)P(Ao 1Bo)P(Bo) + P(A0 | B0) P(A, 1B0) P(B0) + P (A, 1B,) P(A, 1B,) P(B) + P (A0 | B1) P (A1 | B1) P (B) (1) = P(A, MBo). P(Âo (Bo) + P(Ao MBo) P(Â, 1Bo) + P(A, NB,) . P(Â, | B,) + P(A, NB,) P(Â, |B,) Then 0 = 3 x 1 x 70% + 3 x 7 x 30%. + 英x 是 x 21/1 + 曾x 是 x 8%