⑥ $P(D = T | B = T)$

$= \sum_{a,c} P(D = T | B = T, A, C) \, P(A, C, B = T)$

$= \sum_{a,c} P(D = T | B = T, C) \, P(A) \, P(C | A)$

$P(B = T | A, C) =$

~~$P(C | C | B = T, C = T)$~~

$\sum_{a,c} P(D = T | B = T, C) \, P(A) \, P(C | A) \, P(B = T | A)$

$= [P(D = T | B = T, C = T) \, P(C = T | A = T) \, P(A = T)$

$\times P(B = T | A = T)] + [P(D = T | B = T, C = T) \times$

$P(C = T | A = F) \, P(A = F) \, P(B = T | A = F)]$

$+ [P(D = T | B = T, C = F) \, P(C = F | A = T) \, P(A = T)$

$\times P(B = T | A = T)] + [P(D = T | B = T, C = F)$

$P(C = F | A = F) \, P(A = F)]$

$= [.۱۵ \times .۹۸ \times .۹ \times .۹۷] + [.۱۵ \times .۱۲۵ + .۱ \times .۲۱]$

$+ [.۱۱۵ \times .۷۵ \times .۱۲ \times .۹۷] + [.۱۱۵ \times .۷۵ \times .۱۸ \times .۲۳]$

~~⑤⑥~~ $= ٪ ۹۱۷$

$P(D = F | B = T) = 1 - P(D = T | B = T)$

$= 1 - .۹۱۷۵ = ۰.۹۸۸۵ e$

Fri Thu Wed Tue Mon Sun Sat
22 21 20
29 28 27 26 25 24 23
5 4 3 2 1 31 30
12 11 10 9 8 7 6
18 17 16 15 14 13