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Dvr 'SevenCd' ◊ ' ' ◊ SevenCd
▽ SevenCd
[1]  A Given that three hands have a 7+-bagger, chance that 4th does
[2]  lo←7 8 9 10 11 12 13
[3]  sh←0 1 2 3 4 5 6           A Long and non-long suits
[4]  ρN←,sh°..,sh°..,sh°..,lo   A Distributions for N with long clubs
[5]  '# dists: ',ρN←(13=+/'N)/N
[6]  S←1Φ'E←1Φ'N               A S & E have long diamonds & hearts
[7]  ρEN←,(c2 4)ρ'E°..,N
[8]  '# EN dists: ',ρEN←(13∧.≥''+/'EN)/EN   A E & N distributions (2×4 matrices)
[9]  ρSEN←,S°.̄EN
[10] '# SEN dists: ',ρSEN←(13∧.≥''+/'SEN)/SEN   A S, E, & N distributions (3×4 matrices)
[11] '# WSEN dists: ',ρWSEN←(13-+/'SEN)̄'SEN   A W,S,E,N distributions (4×4 matrices)
[12] 'total combinations: ',+combs←((!13)*4)÷x/'x/'!WSEN
[13] Prob+combs÷+/combs           A Probability of each distribution
[14] 'Prob W has 7, given others do ',Prob+.× 7≤↑'WSEN
▽

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2401
# dists: 84
7056
# EN dists: 6132
515088
# SEN dists: 234299
# WSEN dists: 234299
total combinations: 5.891728187E23
Prob W has 7, given others do 0.1083839518

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