Piyeonhole Birviple
ANB >

1,2. n+13 j E &1,2. n3 ach pigeon is in at least one hote P(n+1,1) V P(n+1,2). . . VP(n+1,0) B: Eeach fright is in at most one hale L-[PU,1) 1 PU,2 21-(PU,1) 1 PU,3) P(n+1, 1) AP(n+1, 2)) 1 7 (P(n+1,1) 1 P(n+1,3) At loust one hole has more than one higher (1,1) 1 P(2,1)) V(P(1,1) 1 P(3,13 1,2) 1 P(2,2)) V (P(1,2) 1 P(3,2 P(Jn) 1 P(2,n) ] V (P(Ln) 1 P(3,n)

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