:. To make sum at 5th posh, add, we must have c4=1. . Suffose nevy and hy have parity. .. Cg = 0 to make sum at 4th position odd. Also, pev14 and n14 have opposite parity. ... C13=0 to make sum cet 14th posn. odd. · Now, :: C4=1, :. C4=1 (prev corries are 0) . Suppose reva and na have opposite parity. .. Pevis and as have opposite parity. :. : CH=1, :. sum at 15th posh. is even. ". revo, no; revis and the have some parity. i. Cz= to make sum at 3 brd posh. odd. Sum at 15th posh. is odd, since C14=1. Suppose neve and he have opposite parity. ... G=0 to make sum at 2nd posh. odd. .. pev/s and n/s have opposite parity. Also than, G=0 to make sum at 16th position odd. ·. O2=1, .. C46=1. (prev carries are 0) Suppose per, and n, have opposite parity. ". rev, and no have opposite parity farity. ". c. 1. sum at 17th position is even. :: 96=1, :. sum at 17th position is even. . . . pev, and n, must have same parity : Co=O, Sum at 1st position 2nd position odd. Also, now per und nu have some parity. Also then, 95=1 to make sum at 16th position odd. . Suppose nev, and h, have opposite parity. ... rev17 and n47 have opposite parity. If C16=1, sum at 17th position is even. 1. 96=0 | Now, (45+146+pe/16)/10=96=0 o = C16=0 68 (9+n2+per2)/10= C2=1 not possible (Contradiction) C1=C15=1 N2=Pev16 N16=Pev2