Suppose her/s and no have some parity. .. Co= 1 to make sum at 4th posn. odd. Also, nevisand no have some parity so cos= 1 to make sum at 14th posn. odd. · Suppose nevy and hy have opposite parities.; rejust and hy must have opposite parities. If C=1, sum at 3rd position is even. .. C=0.

If CA=1, sum at 15th position is even. .. C14=0. (C13+ 120/10 = C4 (C13+ 120/10 = C14)/10 = C14 $0_3 = 0_13 = 1$ rev4=nya na= rev14 i. $0_4 = 0_14$ But $0_4 = 1$, $0_4 = 0_14$ But eq=1, en=0

i. c14=0 is not possible.

But eq=1, en=0

i. c14=0 is not possible.

Perity, perity, perity, perity, have same parity.

I all the possible odd

i. c1=1 to make sum at 15th possible odd

i. c14=1, to make sum at 15th possible odd

ii. c14=1, to make sum at 15th possible odd

iii. c14=1, to make sum at 15th possible odd

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iii. c14=1, t14=1, (Now, the case for the lower bits after ng gets repeated) . Suppose rev6 and no have some parity. . by= 1 to make sum at 6th posh. Edd. Also, neviz and niz have some parity is al=1, to make sum · Suppose, nevs and his have opposite parities. The and also : Pevis and nis have opposite parities. :. C4 = O to 6 make sum cat, 5th posn. cdd : @ Cc=O to make sum at 13th posh. odd (C5+ rev6+h6)/10= C6 (Car+ rev12+ n12)/10= C12 $C_5 = C_1 = 1$ rev₆= N₁₂, N₆= rev₁₂ . . . $C_6 = C_{12}$. But $C_6 = 1$, $C_{12} = 0$: revs, ns, revis, ny have some parity :. C4=1 and C12=1 to make sum at 5th and 13th posn. add pespectively. (The cases for the lower bits