CROSS + ROADS - DANGIER. CROSS ROADS DANGER. assign value from a to 9 No two letters have same number 1) Det, orince at in carry-over possible from the own of numbers in column 4 D=1. 2) S+S = R. if it is add, then R is even. if S is even, then R is even. ... The possible values of R is (0,2,4,6,8) Ponsidex S = 21 Then the voter of & is Rule: No two dettors have same number we already the value 1 to D .: 8 + 1. Bonsider S= 8 Then the value of R is 4 C RO 0 SOS ROO A DOS @ OD AN OL EORA

Honsider column 5 3 (without carry) CALOD I+ C+ R > 10 (with carry) Sub R=4 in both cases @1+c+R > 10 OC+4210 C ≥ 10-4 1+C+4 ≥ 10 C = 6 C+5 ≥ 10 C=\$6,4,8,93 C= 95, 6, 7, 8, 9] If we sub C=5 CSROSS R40 A DIS DA(9) NGER C+R = S+4=9 - sit de not carry number . Base 2 is not applicable. Consider c=6 C(6) R(4) O S(2) S(2) P(4) 0 A(0) D(1) S(2) D) A(0) N G E(3) R.(4)

Consider column 3,

0+0=67.

if we put any value in 0, then the G is also get the same Value.

 $c \neq 6$.

Consider C=7

S(2) S (2) C(7) R(4) O

DU) S(2) RA) O A

D(1) A N G E(3) R.4)

if c=7 then c+R => 7+4=11

then A=1

But we already assign the value s

.; C + 7

c = 8. ((8) R(4) 0 S(2) S (2) R(A) 0 A D(1) S (2) D(1) A · N Or E(1) if C=8, C+ P => 8+4-12. then A = 2. But we assign the value 2 to q. .: C + 8. gonsider (= 9. r r r C(9) R(4) 0 S(2) S(2) R(4) 0 A D(1) S (2) D(1) A N G E(3) R L4) if (=9, C+R=)9+4=13 But we already assign the value 3 C + 89 to E Our step @ 3= & us not correct So consider s=3,

Gonspaler:

C R(6) 0 S(3) S(3) (6)R O A D(1) S(3) \$1) A N G E(4) R (6) Bonstder column 5, case 1: C+R = 10 (without avery) case 1: 1+c+R = 10 (with casey) Sub R=6 un both cases. 1+(+6210 C+6 > 10 C >10-7 C > 10-6 CZ 3. C 2 4 C= \$3,4,5,6,7,8,92 \$ c + 3 because S = 3 c \$4 because E=4 if C=5, see the column 5, C+R=) 5+6=11 then A = 1. But D=1 -: C + 5 c + 6, béause R=6.

then
$$A = 3$$

But $S = 3$
 $C \neq T$
 $C \neq R = 0$ 8+6 = 14

Then consider $C = 9$, $A = 5$
 $C(9) R(6) O S(3) S(3)$
 $R(6) O A(5) D(1) S(3)$
 $O(1) A(5) N C E(4) R(6)$
 $O(2) A(6) C E(4) C E(4)$
 $O(3) C E(4) C E(4)$
 $O(3) C E(4) C E(4)$
 $O(3) C E(4) C E(4)$
 $O(4) C E(4)$

then oub 0=2

$$C(9)$$
 $R(6)$ $O(2)$ $S(3)$ $S(3)$ $S(3)$ $R(6)$ $O(2)$ $A(5)$ $D(1)$ $S(3)$ $R(6)$ $O(2)$ $A(5)$ $D(1)$ $S(3)$ $D(1)$ $A(5)$ $N(8)$ $G(4)$ $E(4)$ $R(6)$

9 6 2 3 3 3 6 2 5 1 3