BINARY Var(ZjE, R, O, S, N, B, I, A, Y) Exten (X, X2, X3, X4, X4) for (0,1)

Dor(0,1,2,3,4,5,6,7,8,9) (as vareables are chicked; the Dan will should)

Con (AUd. SS (Z, E, R, O, S, N, B, I, A, Y) (S+S=Y+(X,-10)),

(E+E+X,=R+(X,-10)), (O+N+X2=A+(X3-10)),

(R+O+X3=N+(X4-10)), (F+X4=I (X6-10)), (Z+X5=B), (Y (S+S=Y+(X;18))) (aproteger plus itself is a long ever) X=(Z+X=B, Alldiss)) (Z can + be equallo B, there I is added) (Xu(E+, Xy = I+(1.18)) (I+ I+(x.10) 7,10, Shorthuggers toroid to get a higher number than available) (E(E+1=I+(1.10)) (Theory number in Don that when all a E=9)

\$\forall 1 \forall \frac{1}{3} \text{greater than or equal to 10,59}

\$\forall 1 \forall \frac{1}{3} \text{greater than or equal to 10,59}

\$\forall \frac{1}{3} \text{greater than (9+9+0=R+(X211)) (9+9+0=9+(x,-18)) & Basic Calculations hasadon constructs and Doraus I, (9+1=I+(1.10)) (Z(Z+1=B, Alld. 45)) Don(Z: 1,2,3,4,5,6) (S(S+S=Y+0,A)(285))(555)must be less than 10 sne X=0 478, so S+S con't sun to that pom(5:1,2,3) (Y (3+5=Y+0)) Don (Y: 2,4,6) (O(8+0+(0,1)=N+(1.10), All J.35)) (8+0+X, mythe grada than Oom (0:2,3,4,5,6,7) (0,18) (10, as Xy 15 (8, N ±0, and tosten 18) (N (8+0+(0)1) = N+(1.10), Alld. 55)) Dom (N: 1, 2,3,4,5,6)

×	Backward Checking value 0=2 N=0,3,5,9,5 (+1) A=4,5,6,7,5,5	assignments of 0+N+1=A+(X3-10) [Checking answers of 0+N=A against 8+0=N based on X3 value of A 8+2+p=10 1-1 No valid assignment
	0=3 N=1,2,2,3,5,8 A=5,6,7,8,7,8	8+3+0=11(0,N,A=3,1,5 val.d
X	N=0,2 3, 7, 5, 6 A=0,7, 8, 7, 1, 6	8+4+0=12 /8+4+1=13 0,1,A=4,2,2 valid
*	N=DX, X, X, X, B	8+5+0=13/8+5+1=14 No valid assignment
*/>	10=6 1N=1,1,2,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	8+6+1=15 0,N,A=6,5,2 valid
15	0=7 N=1, 2, 3, 9, 5, 6 A=1, 1, 1, 1, 2,3,9	8+7+1=16 0,N,A=7,6,9 valid
	Dom (0:3,4,6,7 Nil, 2,5,6 A: 2,4,5,7) Dom (Zil, 2,3,4,5,6 B: 2,3,4,5,6,7) Dom (S: 1,2,3 Y: 2,4,6) A selection of t, N, or A is most constraining of Variables If the constrain of all diff is ignored for determining IMCV	

Starting with O and checking Forward Checking. 0=3' LO+N=A Dom CN:11A:5) Alld 35+100m (5:1,2/4:2,4,6/2:1,2,4,5,6/8:23/15/1) N=1 0+N=A+Don(A:5)) All diff+Don(S:214:2,4,6 | 2:2,4,5,6 | B:2,4,5,6,7) A=5 Alldost + Dom [5:214:2, 4,6 | z:2, 4,6 | Bi2,4,6,7) 5=2 S+5= Y-> Dom (Y:4) Alldoff -> Dom (Z:4,6 | B:4,6,7) 4=4 Alld. Sf + Dom (Z:6 | B:6,7) Z=6 Z+1=B+Oom(B:7) Z=6, E=9, R=8,0=3,5=2, N=1, B=7,1=0, A=5, Y=4 701584