

ID	1
4-digit summary	=+B\$6*1+B\$5*10+B\$4*100+B\$3*1000
11 PR	0
10 PnotR	0
01 notPR	0
00 notPnotR	0
P (is possible) = notP is unnecessary	=IF(B3+B4=0;" ",B\$1)
notP (is possible) = P is unnecessary	=IF(B5+B6=0;" ",B\$1)
P is necessary = notP is impossible	=IF(AND(B3+B4>0;B5+B6=0);B\$1;" ")
notP is necessary = P is impossible	=IF(AND(B5+B6>0;B3+B4=0);B\$1;" ")
R (is possible) = notR is unnecessary	=IF(B3+B5=0;" ",B\$1)
notR (is possible) = R is unnecessary	=IF(B4+B6=0;" ",B\$1)
R is necessary = notR is impossible	=IF(AND(B3+B5>0;B4+B6=0);B\$1;" ")
notR is necessary = R is impossible	=IF(AND(B4+B6>0;B3+B5=0);B\$1;" ")
both items contingent	=IF(AND(B\$5+B\$6>0;B\$3+B\$4>0;B\$4+B\$6>0;B\$3+B\$5>0);B\$1;" ")
one or both items incontinent	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;OR(B\$5+B\$6=0;B\$3+B\$4=0;B\$4+B\$6=0;B\$3+B\$5=0));B\$1;" ")
(P + R) is possible = if P, not-then not R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B3=1);B\$1;" ")
(P + notR) is possible = if P, not-then R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B4=1);B\$1;" ")
(notP + R) is possible = if notP, not-then notR	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B5=1);B\$1;" ")
(notP + notR) is possible = if notP, not-then R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B6=1);B\$1;" ")
(P + R) is impossible = if P, then notR	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B3=0);B\$1;" ")
(P + notR) is impossible = if P, then R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B4=0);B\$1;" ")
(notP + R) is impossible = if notP, then notR	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B5=0);B\$1;" ")
(notP + notR) is impossible = if notP, then R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B6=0);B\$1;" ")
(P + R) is unnecessary	=IF(B\$4+B\$5+B\$6>0;B\$1;" ")
(P + notR) is unnecessary	=IF(B\$3+B\$5+B\$6>0;B\$1;" ")
(notP + R) is unnecessary	=IF(B\$3+B\$4+B\$6>0;B\$1;" ")
(notP + notR) is unnecessary	=IF(B\$3+B\$4+B\$5>0;B\$1;" ")
(P + R) is necessary	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B\$4+B\$5+B\$6=0);B\$1;" ")
(P + notR) is necessary	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B\$3+B\$5+B\$6=0);B\$1;" ")
(notP + R) is necessary	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B\$3+B\$4+B\$6=0);B\$1;" ")
(notP + notR) is necessary	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B\$3+B\$4+B\$5=0);B\$1;" ")
causation complete m	=IF(AND(B\$3+B\$6=2;B\$4=0);B\$1;" ")
causation necessary n	=IF(AND(B\$3+B\$6=2;B\$5=0);B\$1;" ")
causation partial (abs) p	=IF(B\$3+B\$4+B\$6=3;B\$1;" ")
causation contingent (abs) q	=IF(B\$3+B\$5+B\$6=3;B\$1;" ")
NOT m	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B33=" ");B\$1;" ")
NOT n	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B34=" ");B\$1;" ")
NOT p (abs)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B35=" ");B\$1;" ")
NOT q (abs)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B36=" ");B\$1;" ")
complete necessary causation mn	=IF(AND(B33=B\$1;B34=B\$1);B\$1;" ")
complete contingent causation mq (abs)	=IF(AND(B33=B\$1;B36=B\$1);B\$1;" ")
necessary partial causation np (abs)	=IF(AND(B34=B\$1;B35=B\$1);B\$1;" ")
partial contingent causation pq (abs)	=IF(AND(B35=B\$1;B36=B\$1);B\$1;" ")
NOT(mn)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B41=" ");B\$1;" ")
NOT(mq)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B42=" ");B\$1;" ")
NOT(np)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B43=" ");B\$1;" ")
NOT(pq)	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B44=" ");B\$1;" ")
m-alone abs	=IF(AND(B33=B\$1;B34="";B36="");B\$1;" ")
n-alone abs	=IF(AND(B34=B\$1;B33="";B35="");B\$1;" ")
p-alone abs	=IF(AND(B35=B\$1;B34="";B36="");B\$1;" ")
q-alone abs	=IF(AND(B36=B\$1;B33="";B35="");B\$1;" ")
strong causation s = m or n	=IF(OR(B33=B\$1;B34=B\$1);B\$1;" ")
weak causation w = p or q (abs)	=IF(OR(B35=B\$1;B36=B\$1);B\$1;" ")
unspecified causation c = s or w (abs)	=IF(OR(B33=B\$1;B34=B\$1;B35=B\$1;B36=B\$1);B\$1;" ")
NOT s	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B53=" ");B\$1;" ")
NOT w	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B54=" ");B\$1;" ")
NOT c	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B55=" ");B\$1;" ")
complete prevention by P of R	=IF(AND(B\$4+B\$5=2;B\$3=0);B\$1;" ")
necessary prevention by P of R	=IF(AND(B\$4+B\$5=2;B\$6=0);B\$1;" ")
partial (abs) prevention by P of R	=IF(B\$4+B\$3+B\$5=3;B\$1;" ")
contingent (abs) prevention by P of R	=IF(B\$4+B\$6+B\$5=3;B\$1;" ")
NOT complete prevention by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B59=" ");B\$1;" ")
NOT necessary prevention by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B60=" ");B\$1;" ")
NOT partial (abs) prevention by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B61=" ");B\$1;" ")
NOT contingent (abs) prevention by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B62=" ");B\$1;" ")
prevention (abs) by P of R	=IF(OR(B59=B\$1;B60=B\$1;B61=B\$1;B62=B\$1);B\$1;" ")
NOT prevention (abs) by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B67=" ");B\$1;" ")
notPnotR complete causation m	=IF(AND(B\$3+B\$6=2;B\$5=0);B\$1;" ")
notPnotR necessary causation n	=IF(AND(B\$3+B\$6=2;B\$4=0);B\$1;" ")
notPnotR partial causation (abs) p	=IF(B\$3+B\$5+B\$6=3;B\$1;" ")
notPnotR contingent causation (abs) q	=IF(B\$3+B\$4+B\$6=3;B\$1;" ")
notPR complete causation m	=IF(AND(B\$4+B\$5=2;B\$6=0);B\$1;" ")
notPR necessary causation n	=IF(AND(B\$4+B\$5=2;B\$3=0);B\$1;" ")
notPR partial causation (abs) p	=IF(B\$4+B\$6+B\$5=3;B\$1;" ")
notPR contingent causation (abs) q	=IF(B\$4+B\$3+B\$5=3;B\$1;" ")
connection (abs) by P of R	=IF(OR(B\$55=B\$1;B\$67=B\$1);B\$1;" ")
NOT connection (abs) by P of R	=IF(AND(B\$3+B\$4+B\$5+B\$6>0;B77=" ");B\$1;" ")
interpretations of the individual moduses	impossible modus
summary	
=COUNTA(A1:A79)	