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## Example from 3notes11 part 2

R (ABCD)

A = AD

B = BCD

C =

D =

AB = ABCD

AC = ACD

AD =

BC =

BD =

CD =

**ABC** =

**ABD** =

ACD =

BCD =

## BCNF

A -> D

B -> C

**AB** -> CD

## 3NF

A -> D

B -> C

B -> D

**AB** -> C

**AB** -> D

$A^+ = A$

$B^+ = BD$

$B^+ = BC$

AB = ABCD

AB = ABD

R1 (AD)

**A** -> D

R2 (BC)

**B** -> C

R3 (BD)

**B** -> D

R4 (AB)

## Example from 3notes12 part 2

R (ABC)

A ->-> B

(a1, b1, c1)

(a, b2, c2)

(a, b3, b3)

a, b1, c3

a, b3, c1

a, b1, c2

a, b2, c1

a, b2, c3

a, b3, c2