

Question 46:-

a) The variables for the given problem are
A, B, C, D

domain:- It is the set of possible start times for the respective task of each variable. In this case the start times are 1:00, 2:00, 3:00

constraints:- The constraints that need to be applied while solving the problem are

$A > D$; A must start after D

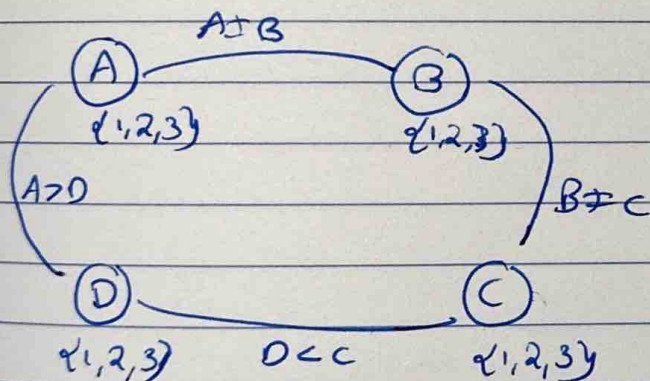
$D < C$; D must start before C

$A \neq B$; A cannot execute at the same time as B

$B \neq C$; B cannot execute at the same time as C

$C \neq 2$; C cannot start at 2:00

b)



c)

The arc consistency obtained by applying all the necessary constraints on CSP is shown as below

