

Fundament of AI

Mid term - Exam

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46 Question

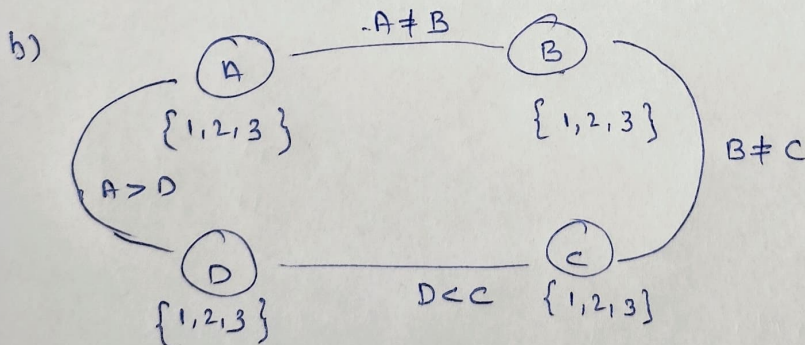
(a) The variables for the given problem are

A, B, C, D

Domain: $I+$ is the set of possible start times for the respective task of each variable. In this case the start times 1:00, 2:00, 3:00.

constraints: The constraints that needs 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



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

