

# Intelligent Systems: Reasoning and Recognition

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Exercise 6

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Assume the following temporal relations between intervals A, B, C and D.

Event A after Event B :  $(A > B)$

Event B meets event C :  $(B m C)$

Event D is after event A:  $(D > A)$

Event D finishes event C :  $(D f C)$

- a) What are the possible relations of A to C obtained by transitivity with B?
- b) What are the possible relations of A to C obtained by transitivity with D?
- c) What are the possible relations of A to C after constraint propagation?