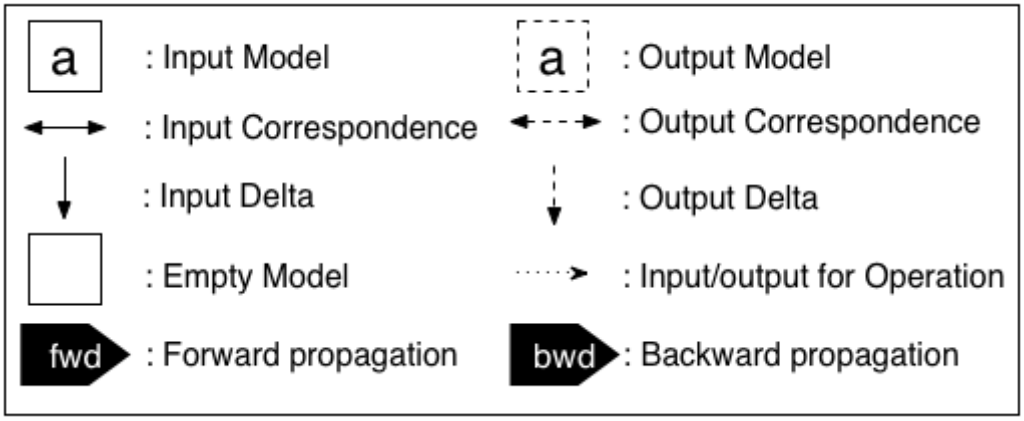
Evaluation Test Questions

* Required

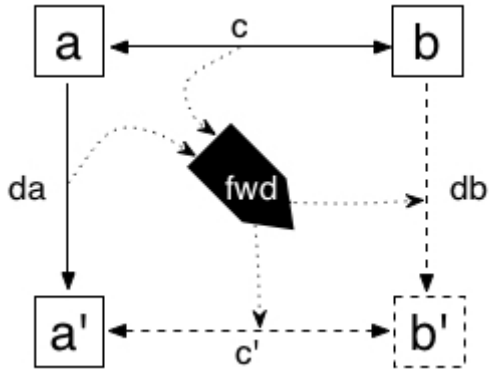
Legend and Assumptions

For easy reference, below is the legend used in the tutorial and for all diagrams in the questions.

For all questions we assume a consistency relation R is given, and that the forward and backward propagation operations are correct with respect to R. Models with the same label are assumed to be identical, while models with different labels, e.g. < a > and < a' > are assumed to be different.



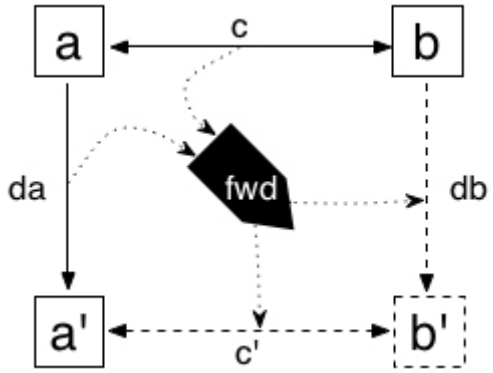
1. **Do you think the model b' must be unique?** *



Mark only one oval.

- ◯ Yes, there is always exactly one such model b' that is consistent with a'
- ◯ No, there might be many models b' that are consistent with a'

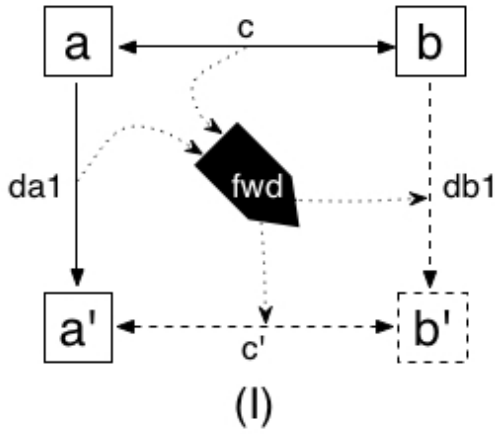
2. **Do you think such a model b' must exist?** *



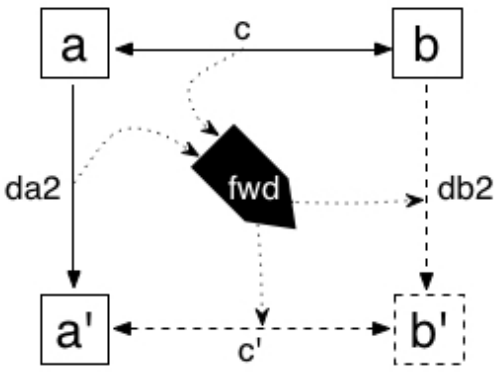
Mark only one oval.

- Yes, there is always at least one such b'
- No, such a model b' might not exist at all

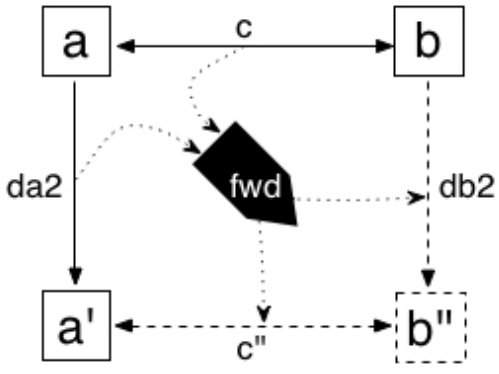
3. **Given the situation depicted in (I), which of the diagrams (II) or (III) is to be expected in general?** *



(I)



(II)

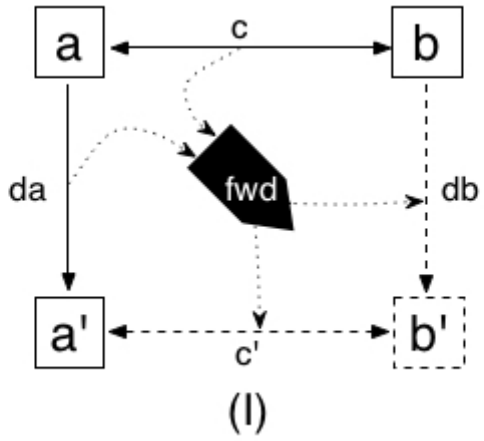


(III)

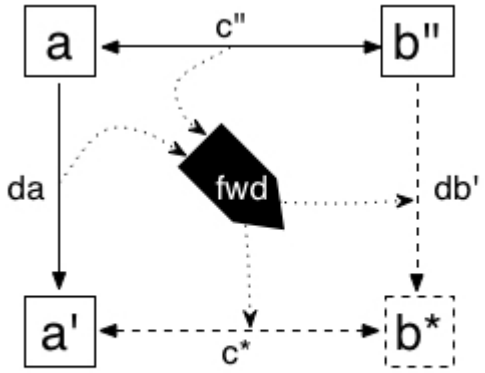
Mark only one oval.

- (II) is to be expected; even though a different delta da2: a -->a' is propagated, it results in the same model a' as da1 so db2 (produced by fwd(da2, c)) must also result in the same model b' as db1
- (III) is to be expected; a different delta da2: a -->a' is propagated so the resulting consistent model b'' can be completely different from b'

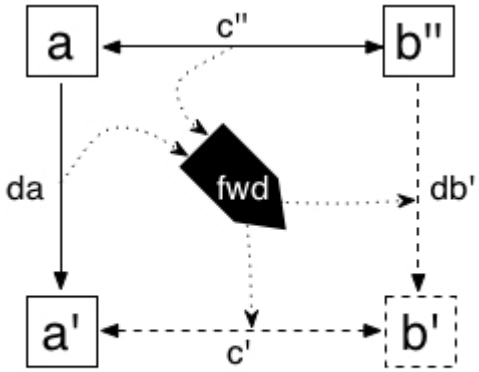
4. **Given the situation depicted in (I), which of the diagrams (II) or (III) is to be expected in general?** *



(I)



(II)



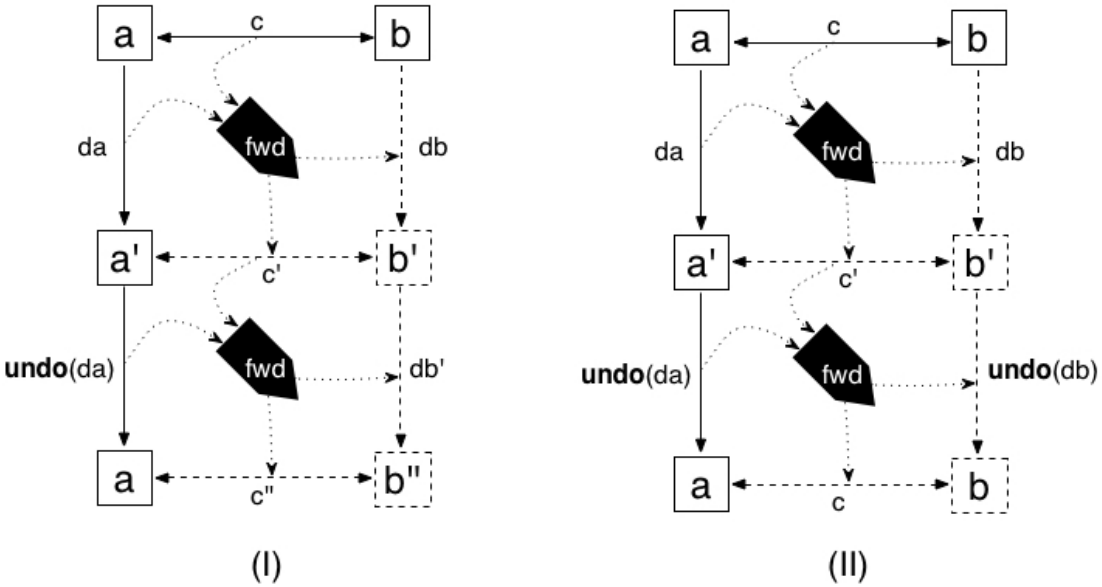
(III)

Mark only one oval.

(II) is to be expected; even though the same delta da is propagated, the result depends on the previous model b''. As b'' is different from b, b* will be in general different from b'

(III) is to be expected; the same delta da: a --> a' is propagated so this must result in the same model b' as in (I)

5. **Which diagram (I) or (II) is to be expected in general?** *



Mark only one oval.

(I) is to be expected; undoing da and propagating this delta does not guarantee that the same model b can be recovered

(II) is to be expected; if da can be undone and this change is propagated, then db will also be undone to result in the previous model b

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