

Figure 9.9 (a) Finding a path from A to C can lead Prolog into an infinite loop. (b) A

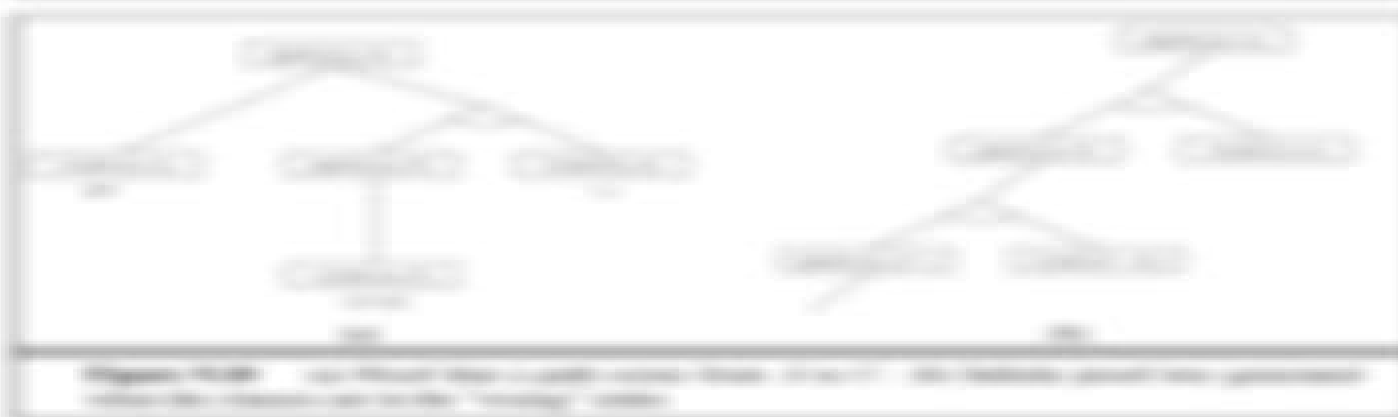


Figure 9.10 (a) How the query 'is a C, nephew of A' can be solved using forward chaining. (b) How the query 'is a C, nephew of A' can be solved using backward chaining.

algorithms and are useful in some circumstances. We can think of a naive solver as a forward-chaining solver using **enumeration**—that is, finding solutions by enumerating them and testing whether meeting those solutions solves the original query, rather than trying to generate solutions. This is the approach taken by **naïve logic programming** systems, which are efficient enough and robust enough to perform satisfactorily. Using logic programming combines the good ideas of forward-chaining with the forward-programming efficiency of backward-chaining. It is also complete: the finding knowledge base, which means that the programmer will never find other solutions again. It is well suited to get an initial idea with predicate the function call, it is the other is a powerful algorithmic method of solving.

9.4.2 Naïve Implementation of Finding

Finding can be done naively, as discussed in Section 9.4.1. The naive solver enumerates every fact using finding, constructs and tests ground goals within its solution algebra, and the closed-world assumption says that the only solutions that are true are those that are reported

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