SLDNF Draw User's manual

Chapter 2: Animations

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Outline

Activating animations

The trees generated with SLDNF-Draw can be visualized as animations of the `beamer` class, so that in `beamer` presentations the tree is shown gradually, showing the nodes of the tree as they are explored by a depth-first search, as in classical Prolog.
By default, no animation is generated. To switch on animations, the command `animate/0` can be given at the Prolog prompt.

```
[eclipse 1]: animate.

Yes (0.00s cpu)
[eclipse 2]: draw_goal(member1(p(X),[Y,q,p(1)]),
                       "tree.tex").

Yes (0.00s cpu)
```

Animations: LaTeX code

A minimal LaTeX file to generate a PDF with an animated tree is the following

```
\documentclass{beamer}
\mode<presentation>
\usetheme{Warsaw}
\usepackage{epic}
\usepackage{ecltree}
\begin{document}
\begin{frame}{Title}
 \input{tree}
\end{frame}
\end{document}
```

Animation

And this is the result of drawing the goal member1(p(X),[Y,q,p(1)]), where member1 is defined as follows:

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member1(X,[X|T]).
member1(X,[_|T]):- member1(X,T).
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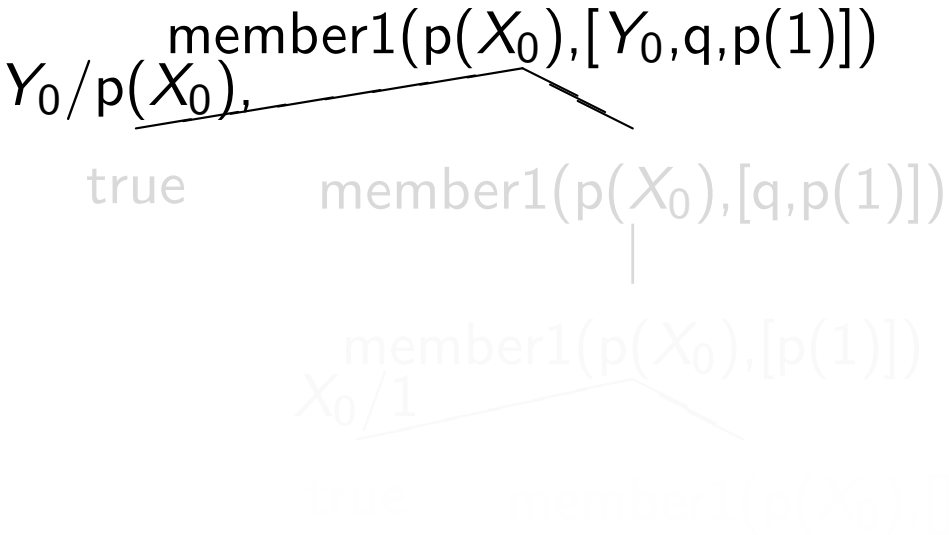

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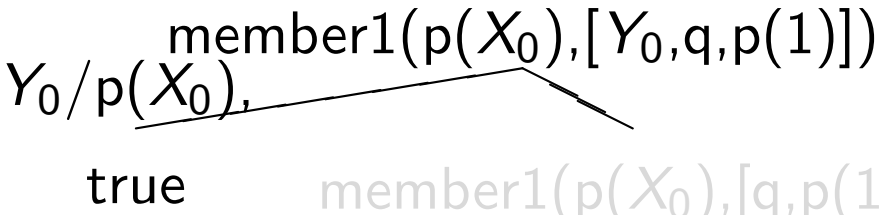

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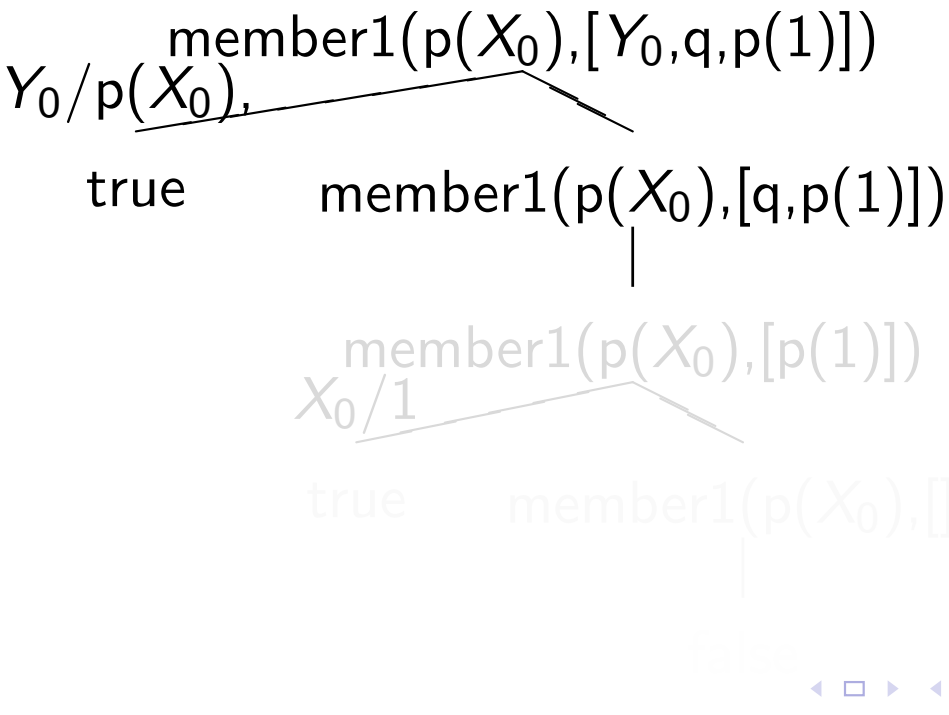

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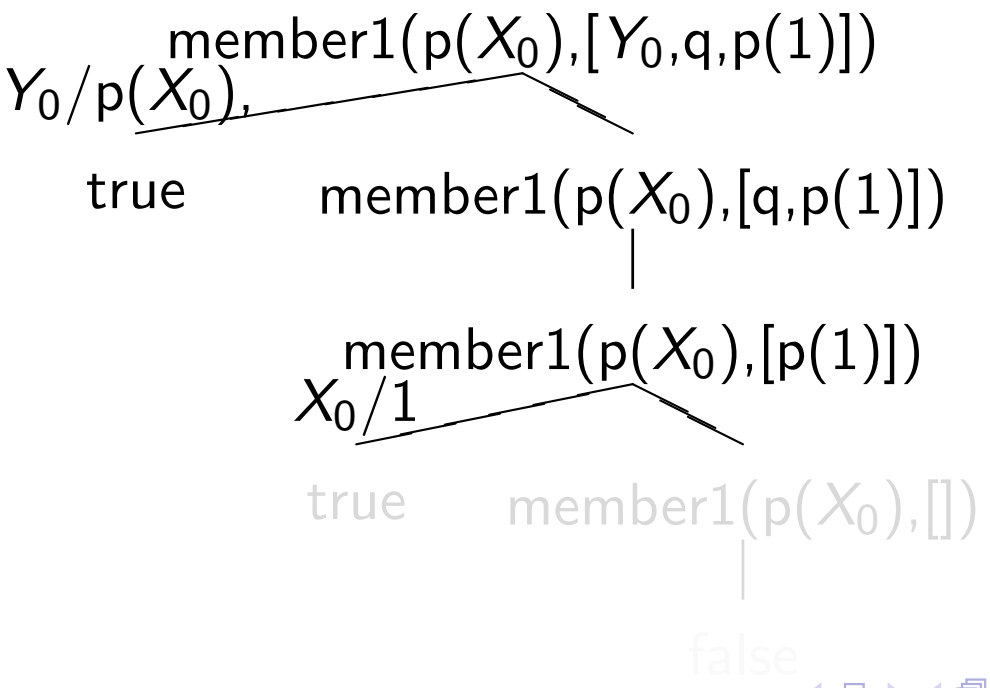

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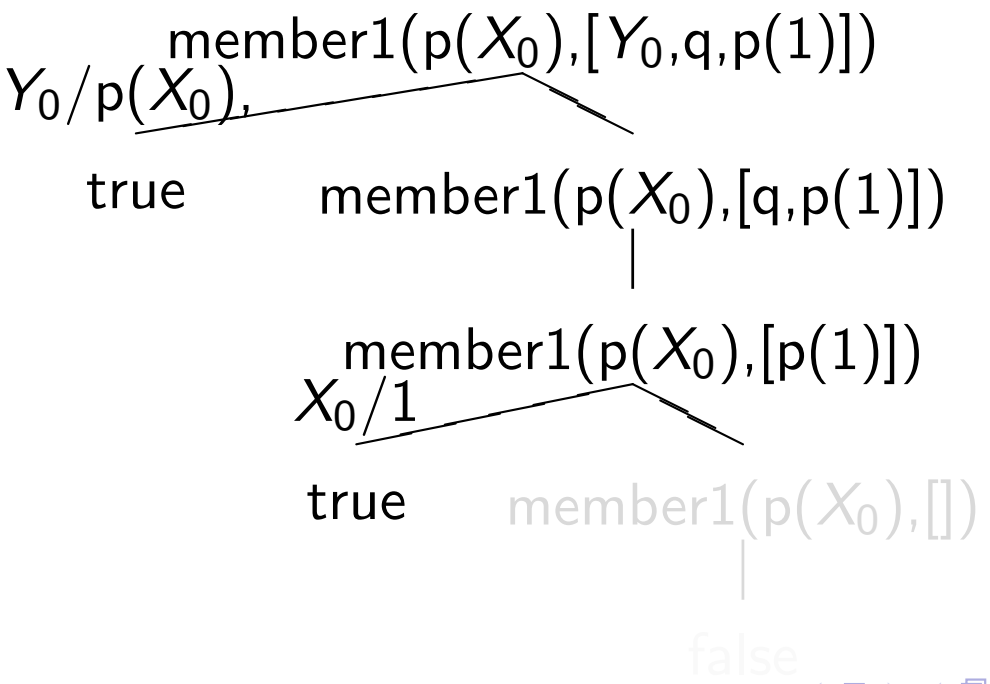

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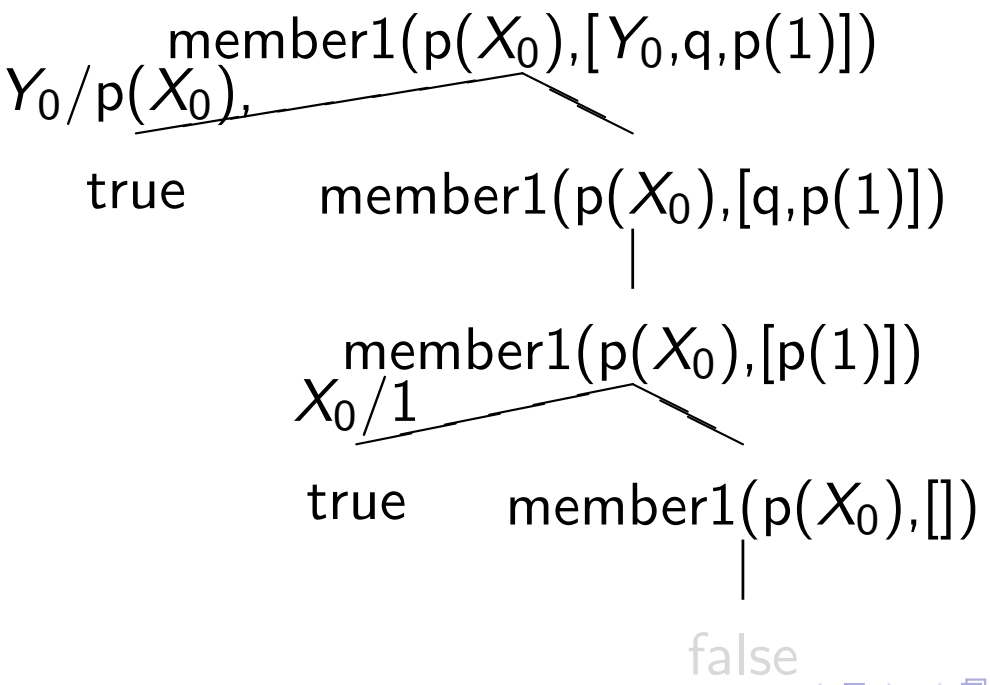

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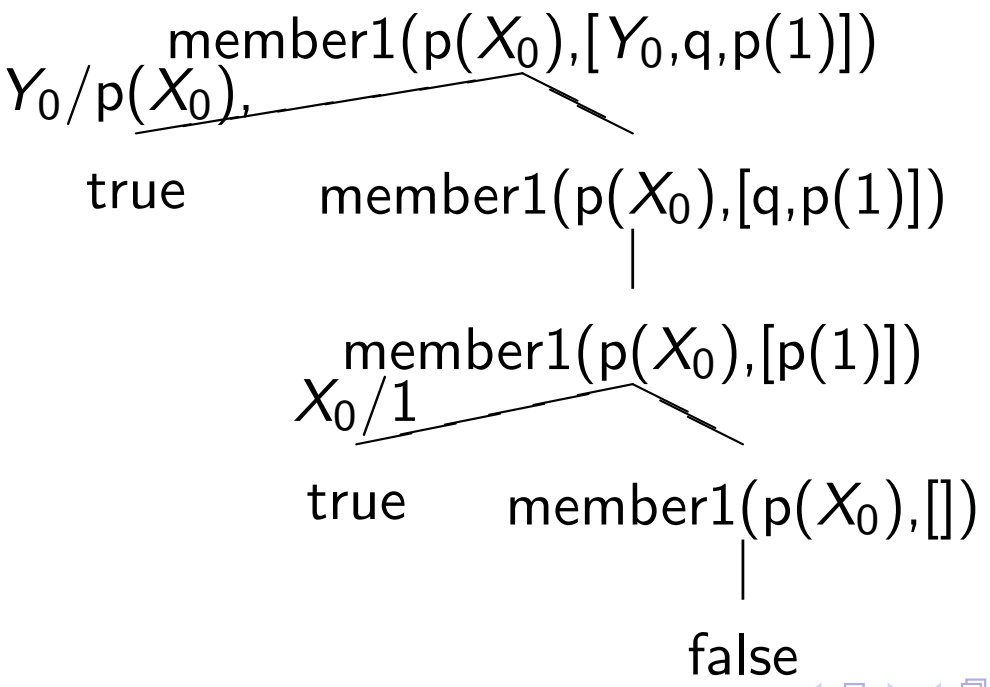
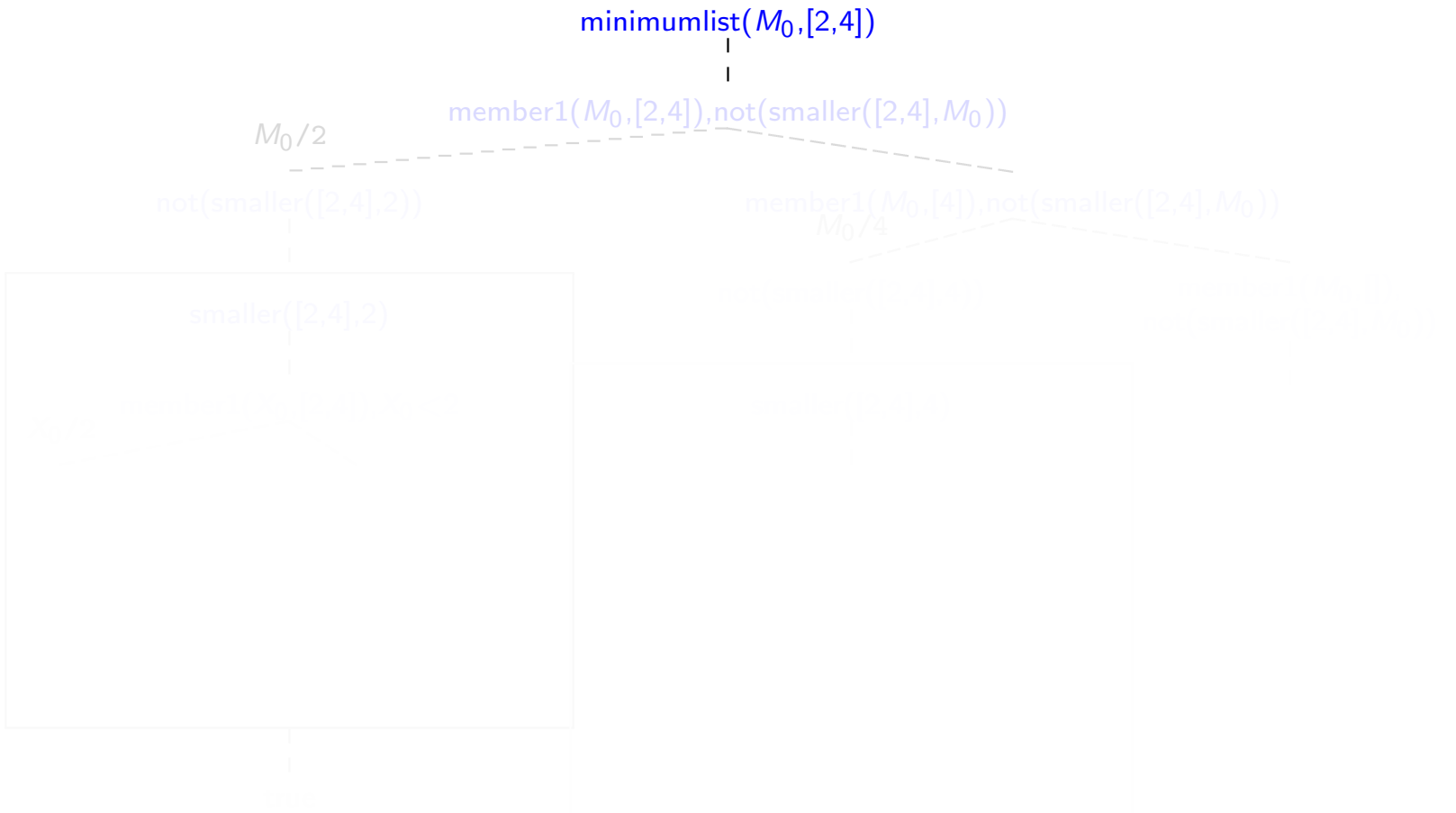


Larger example with negation, color, and dashed lines



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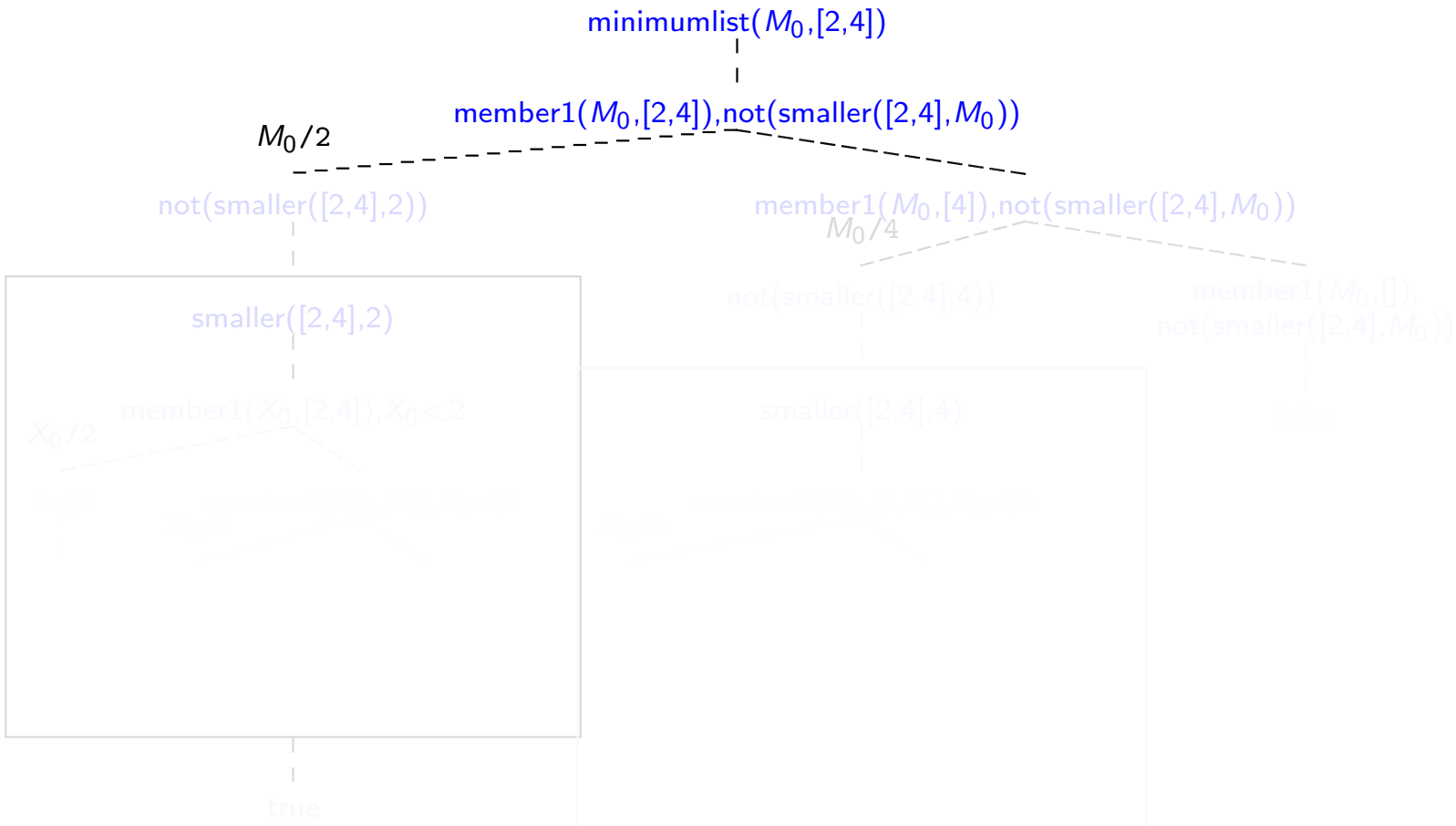

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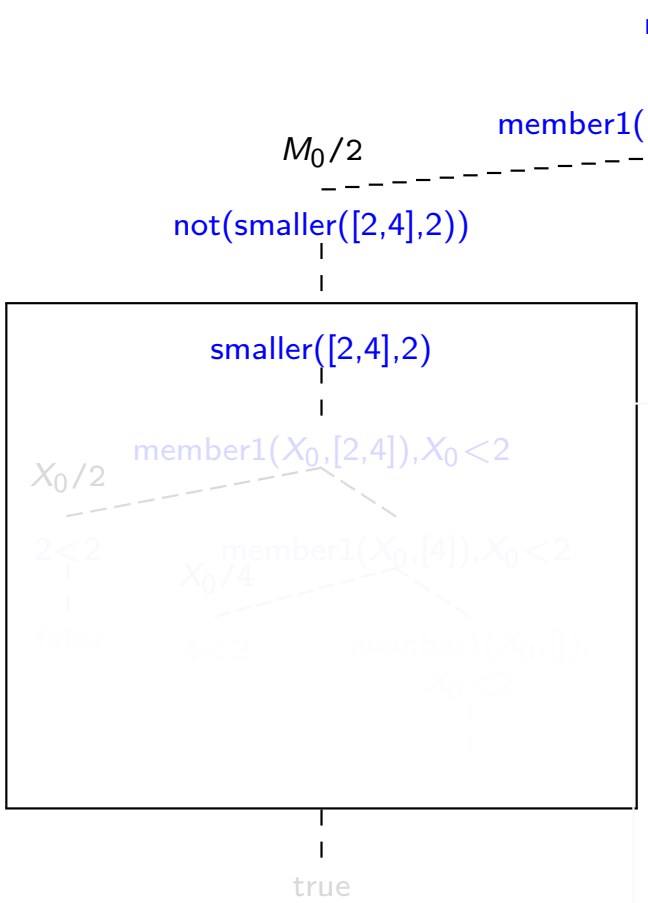

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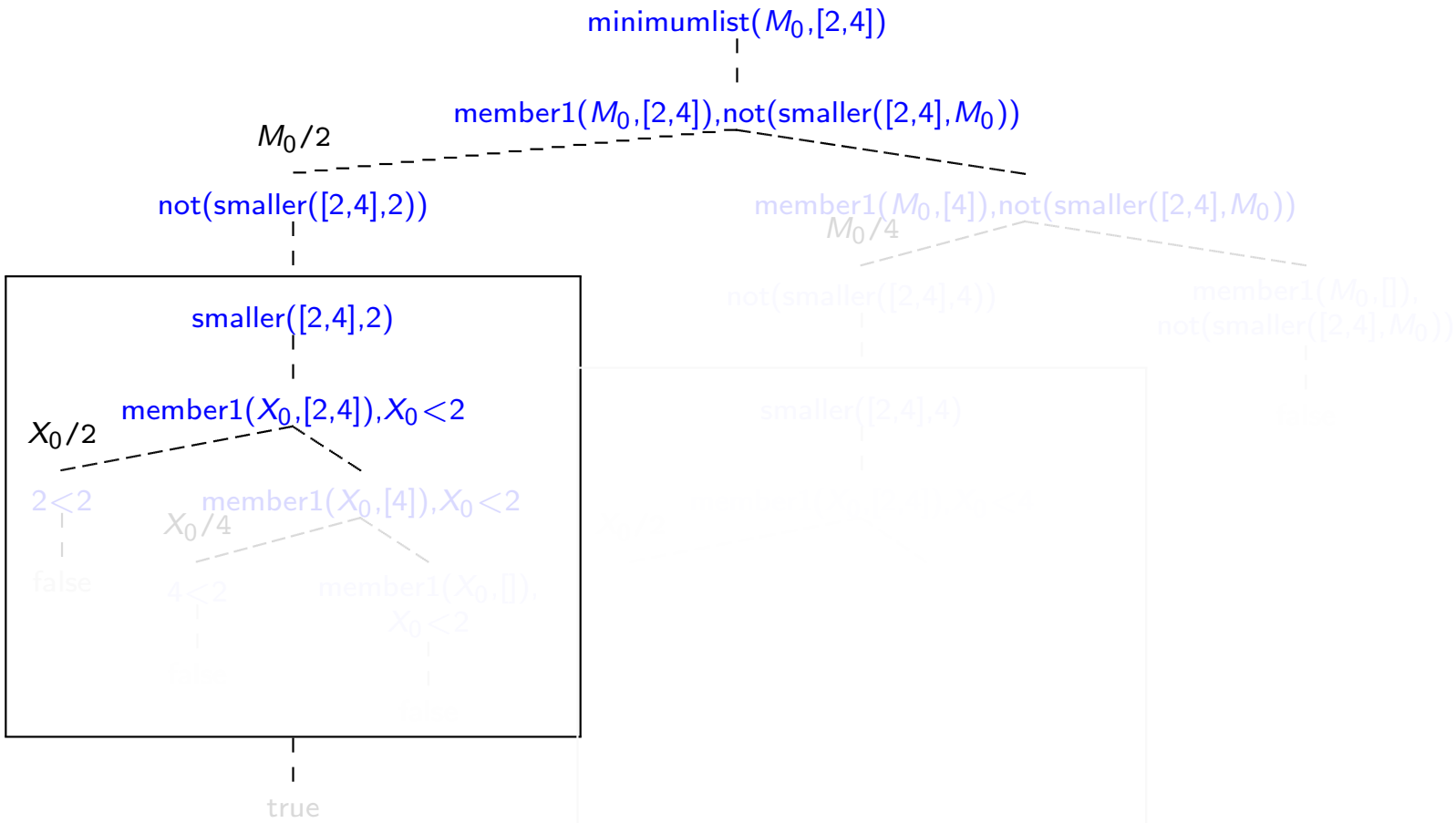

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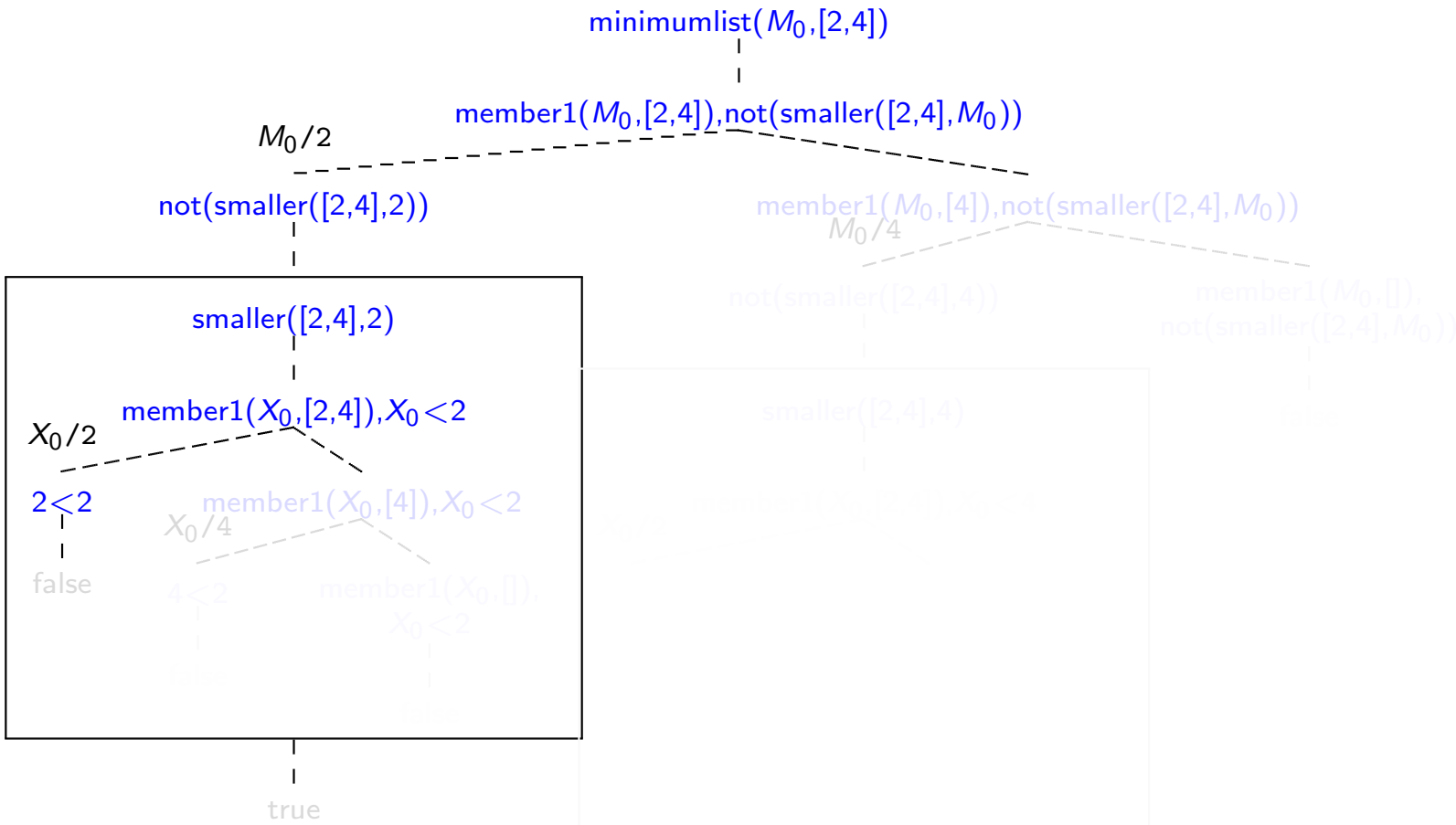

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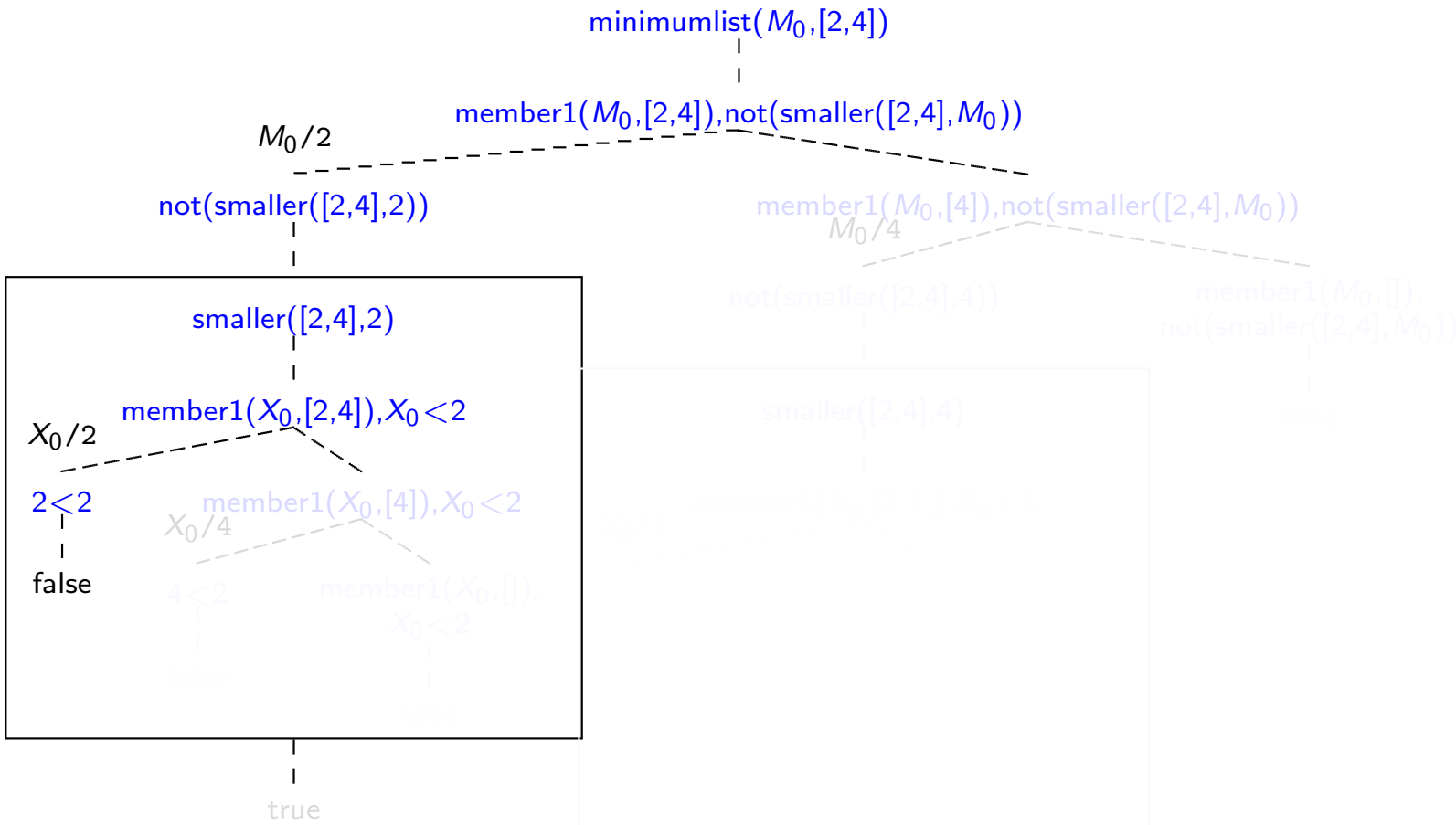

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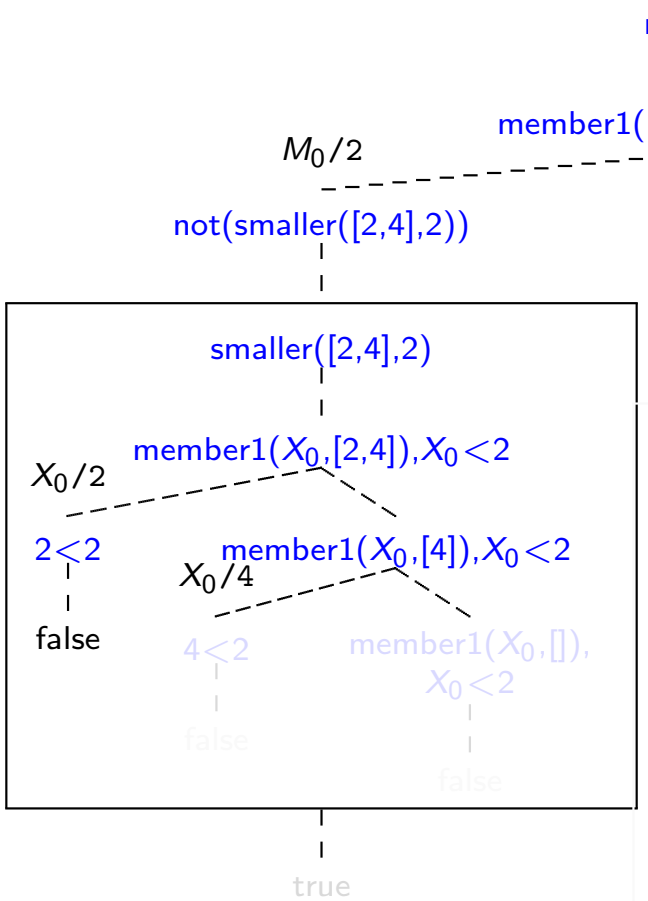

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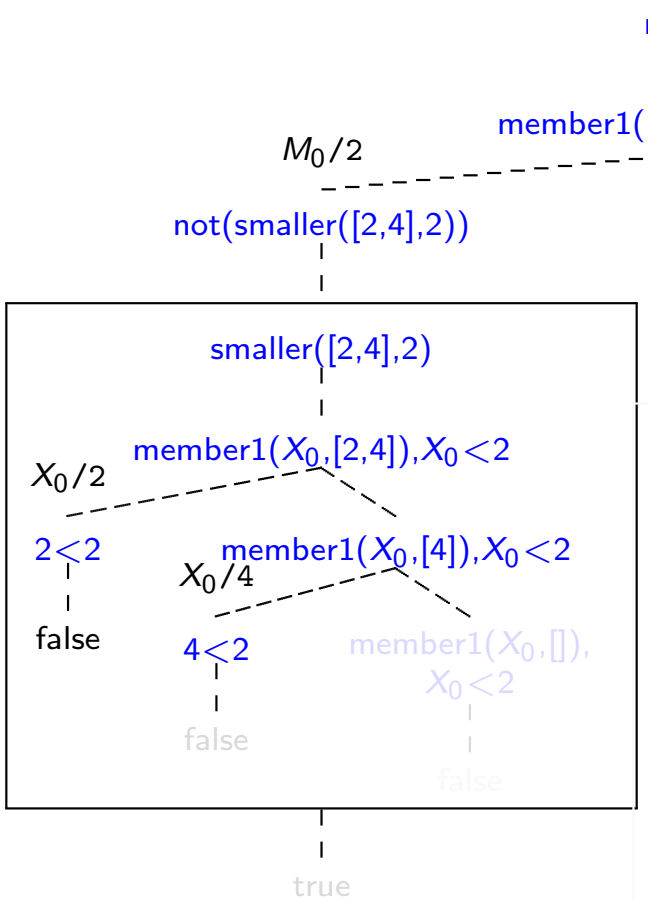

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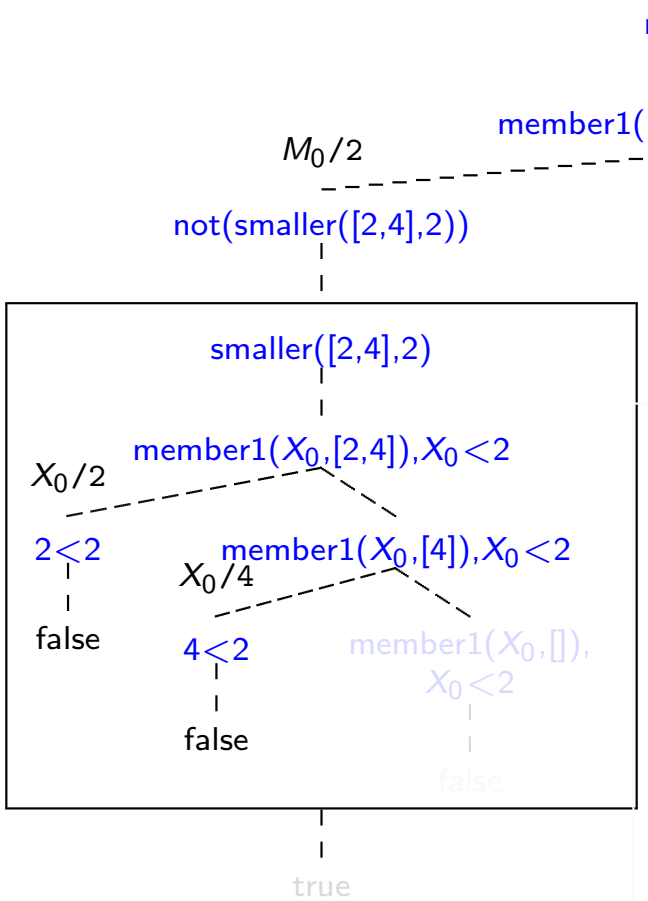

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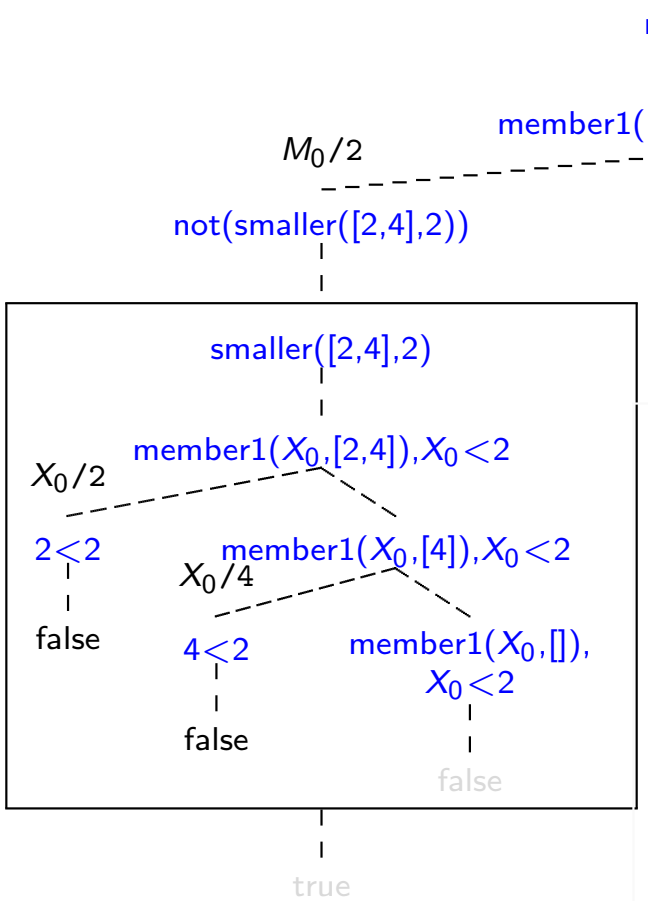

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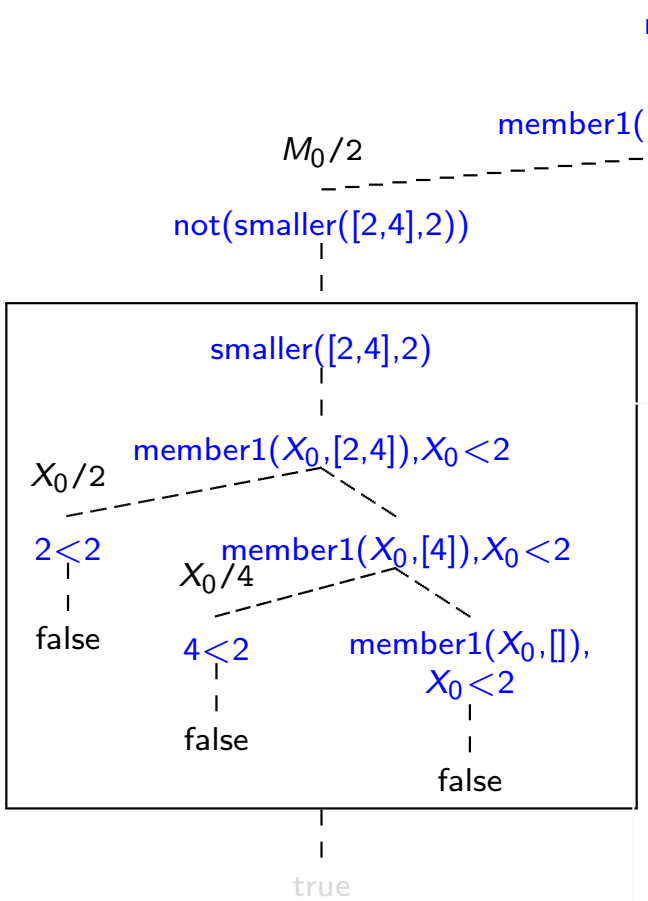

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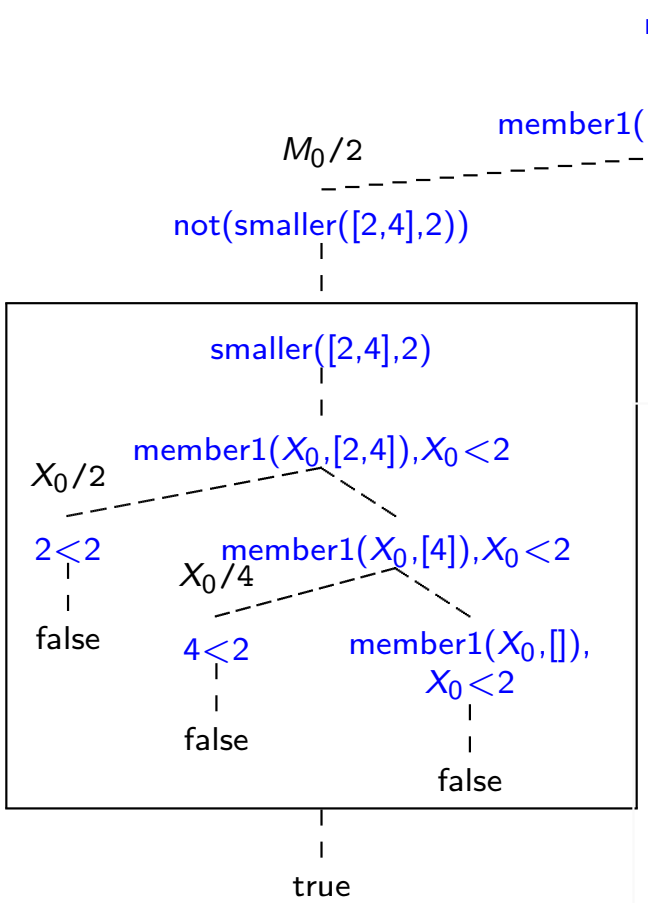

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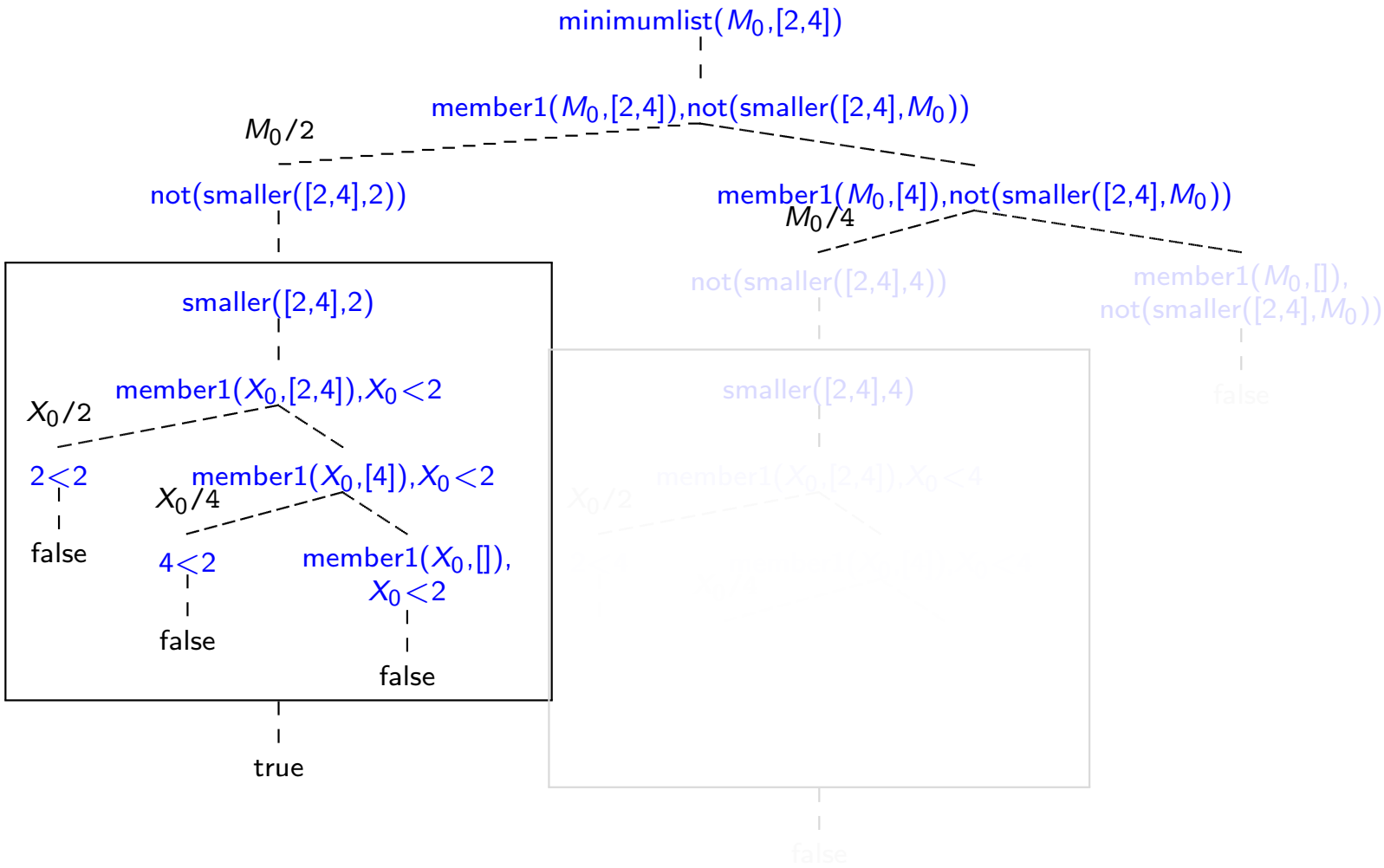

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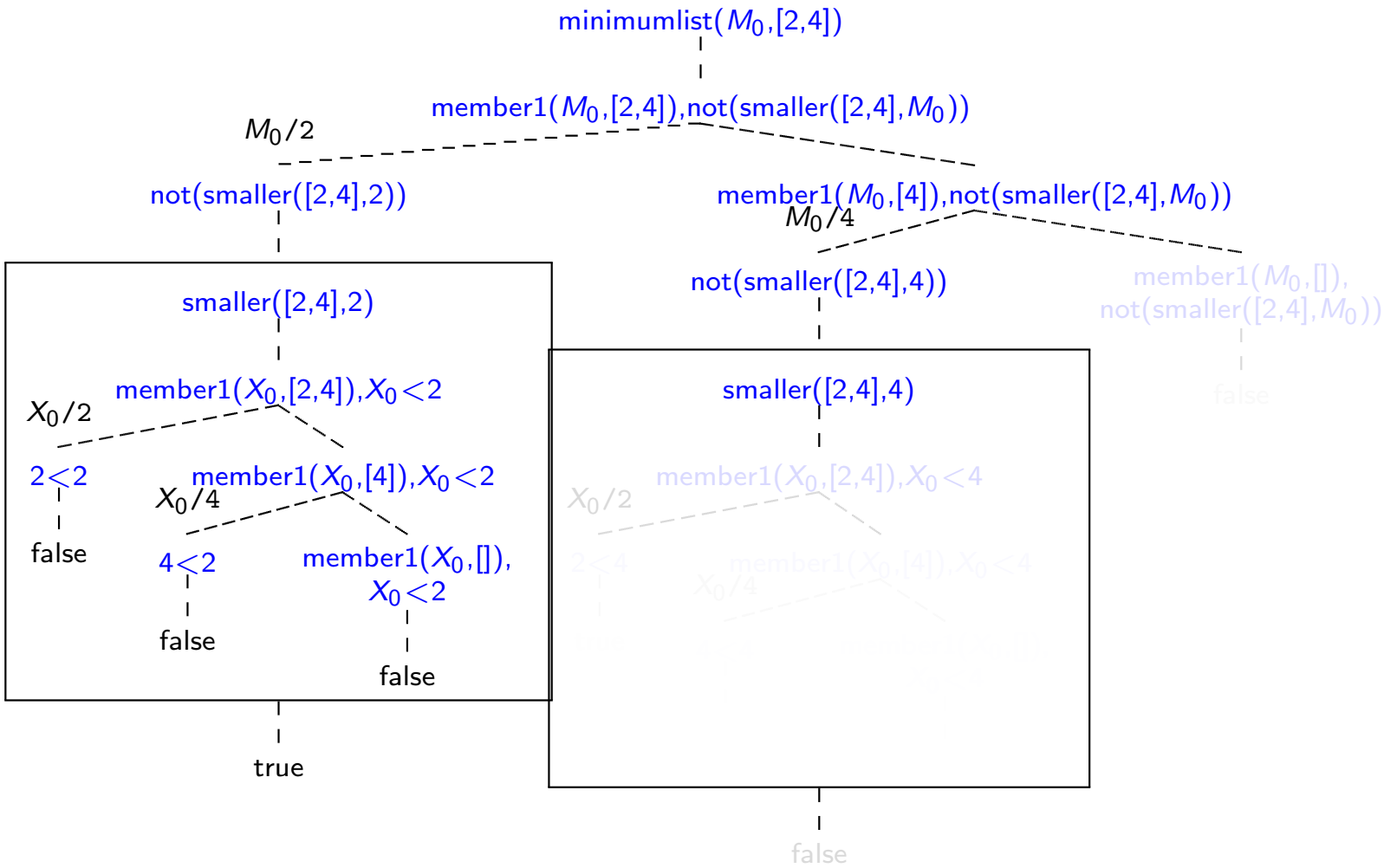

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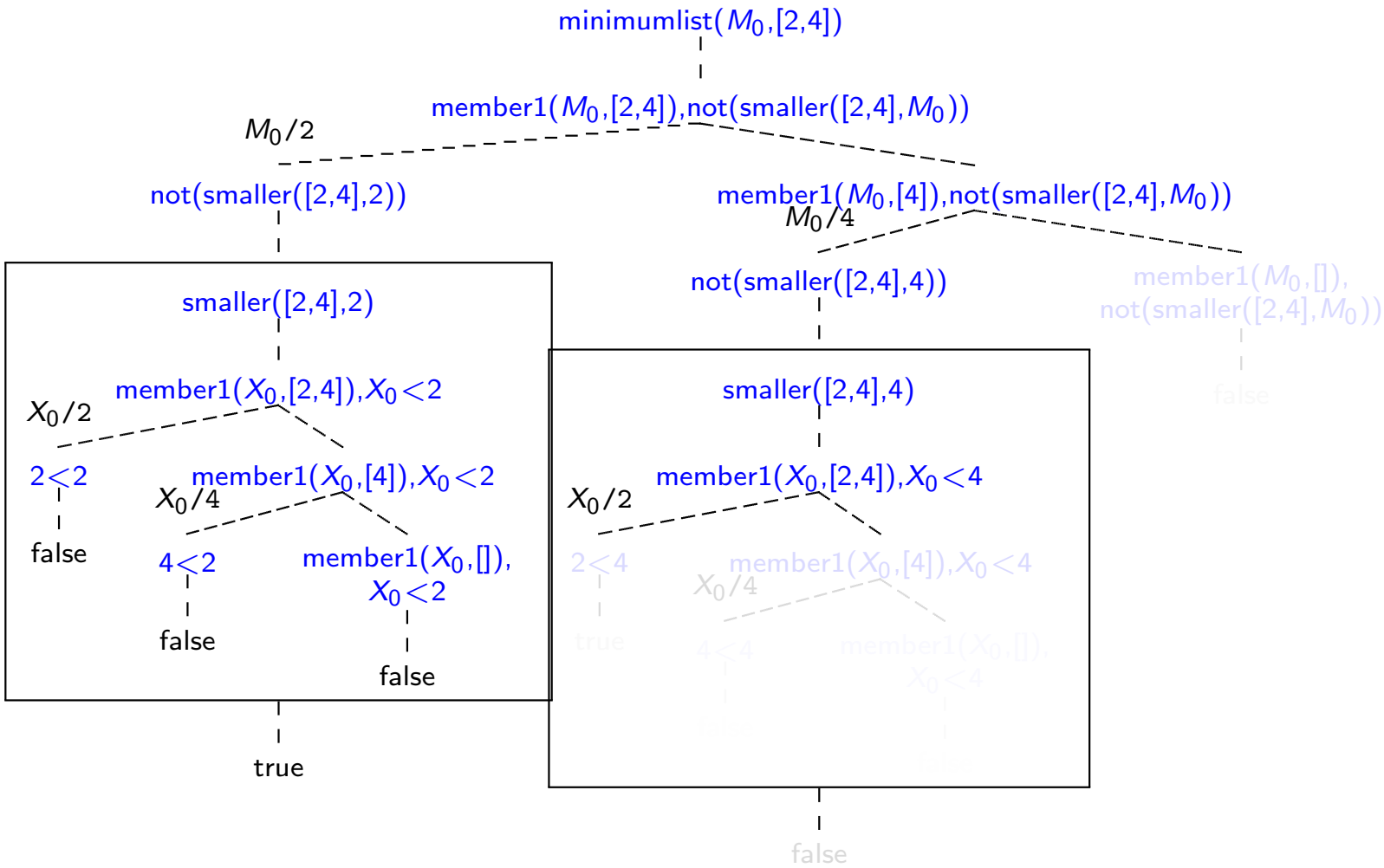

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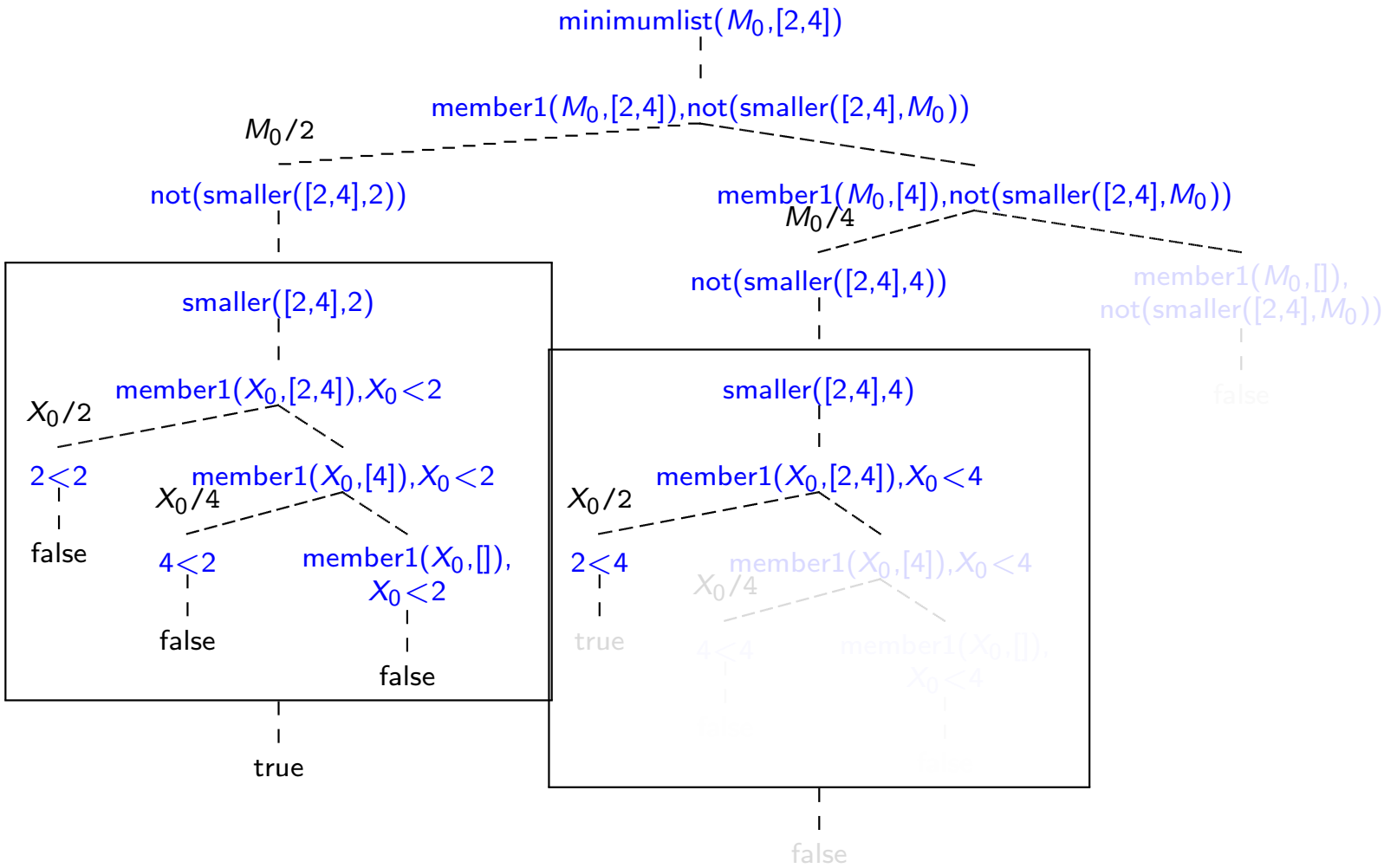

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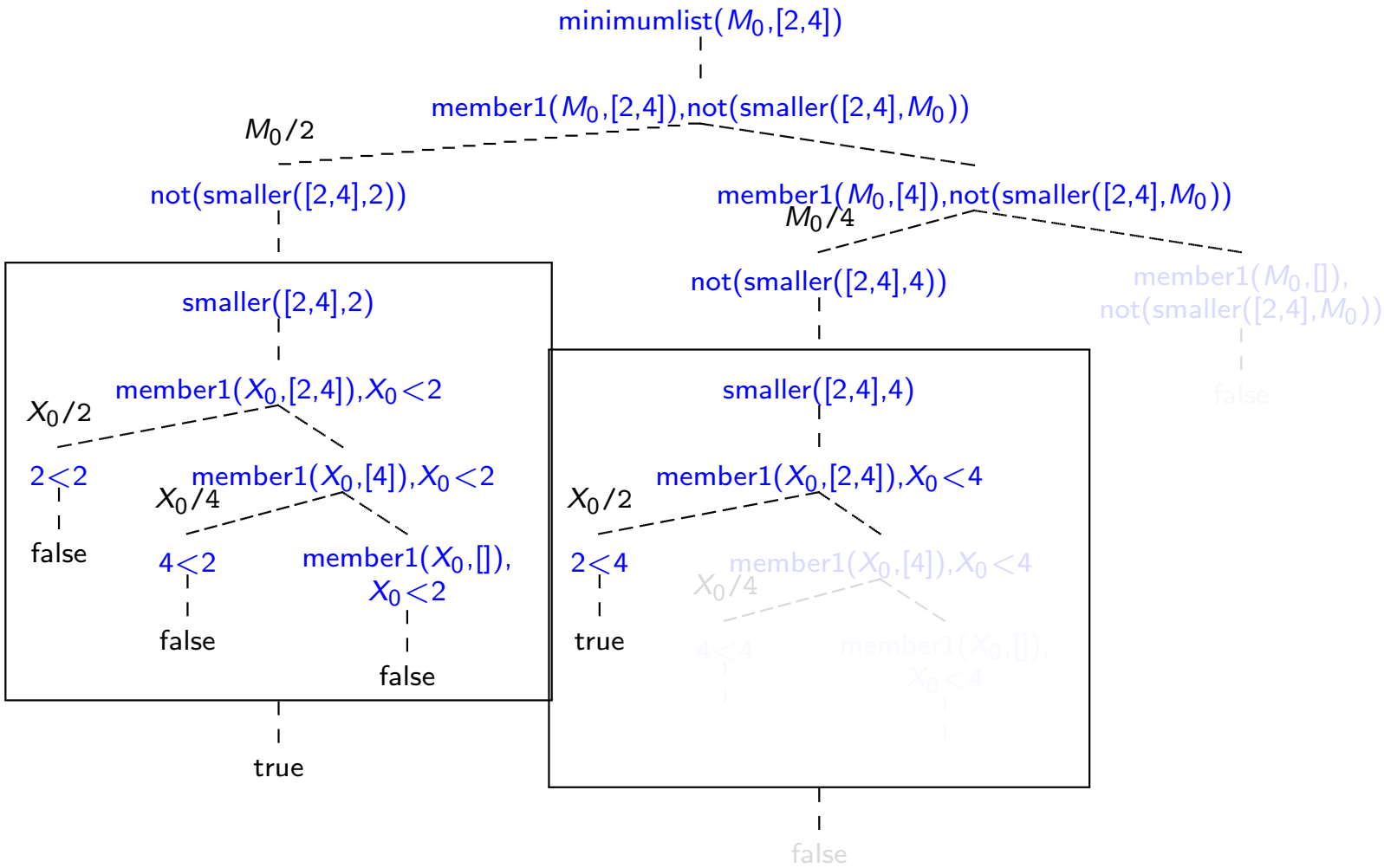

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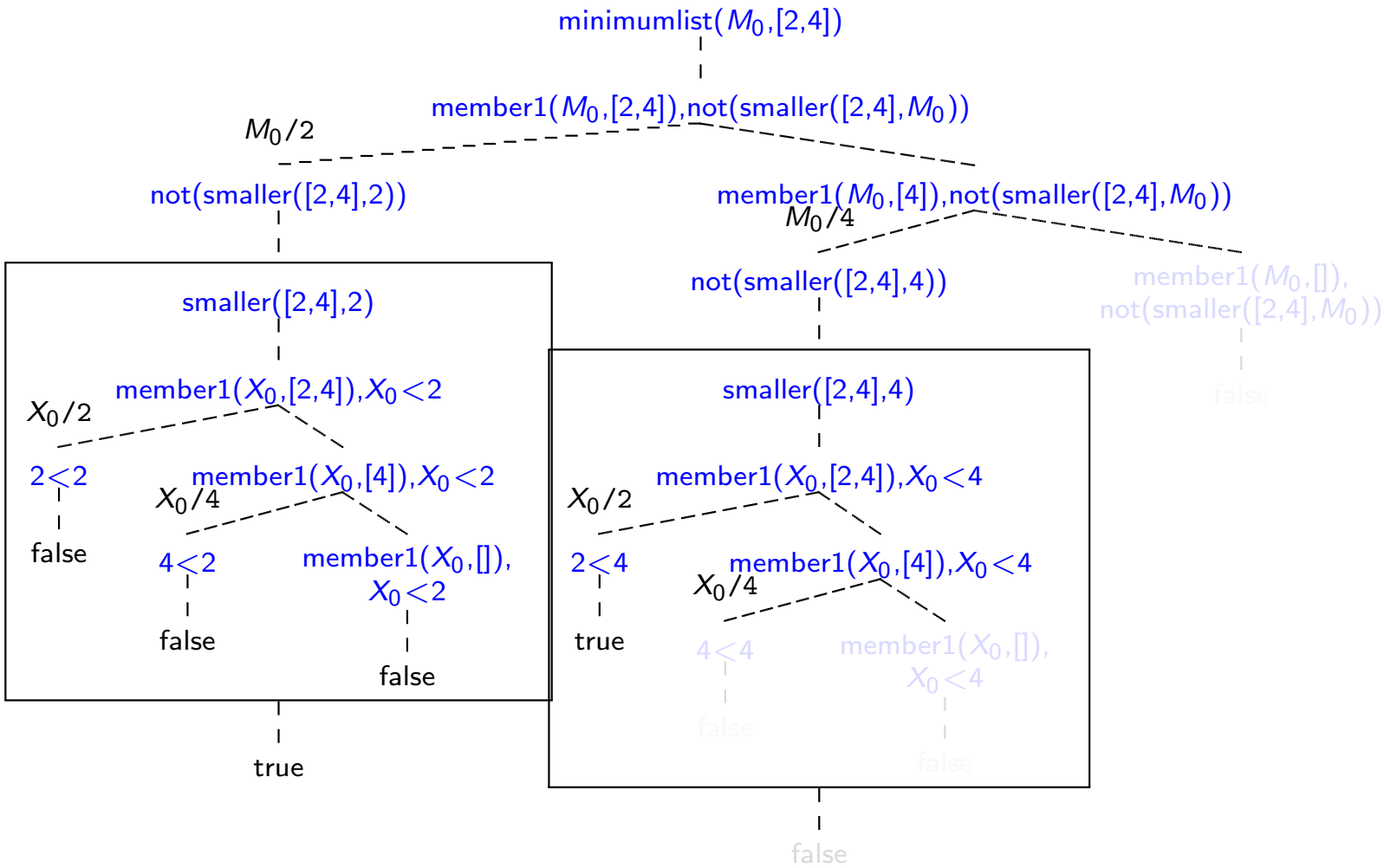

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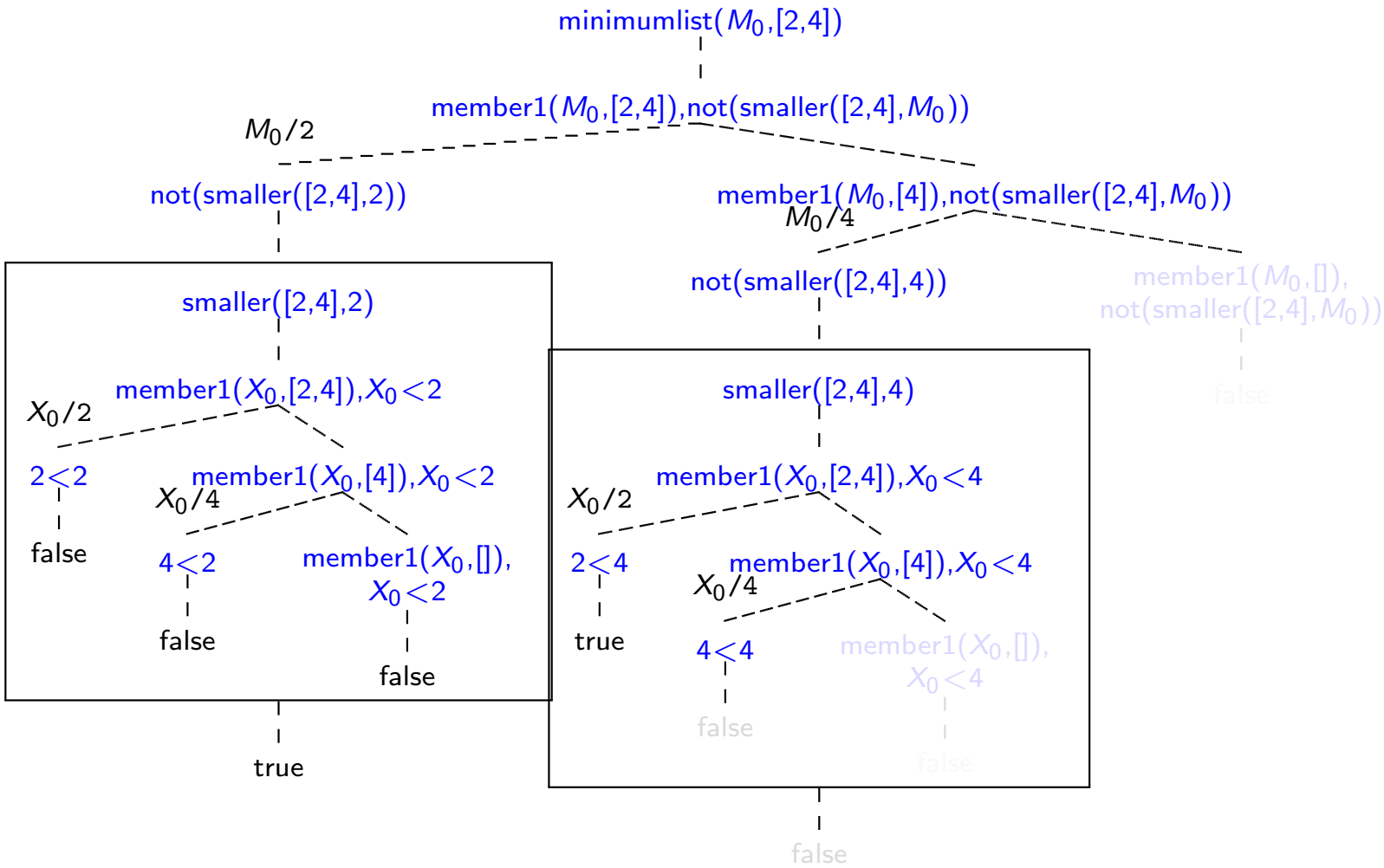

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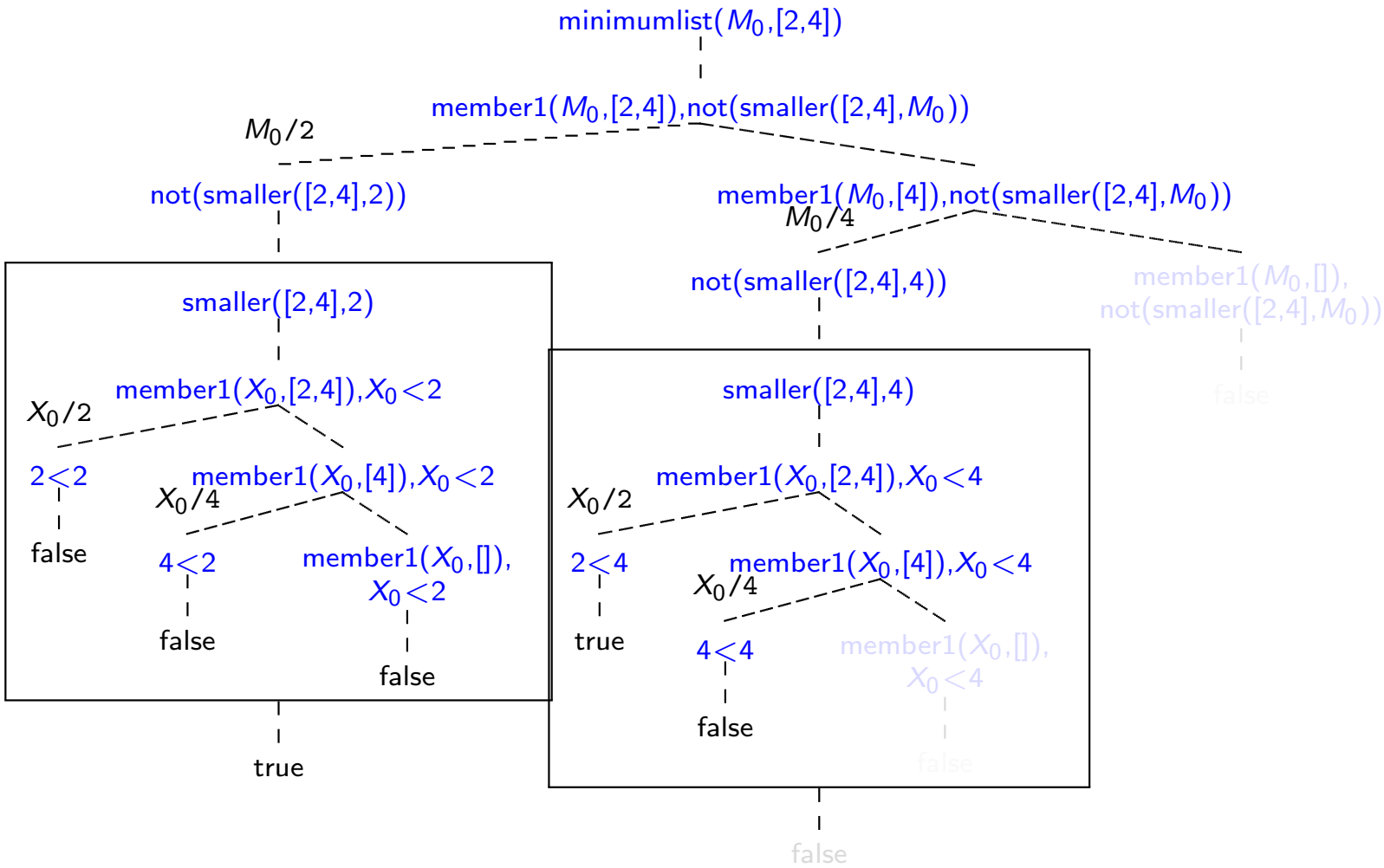

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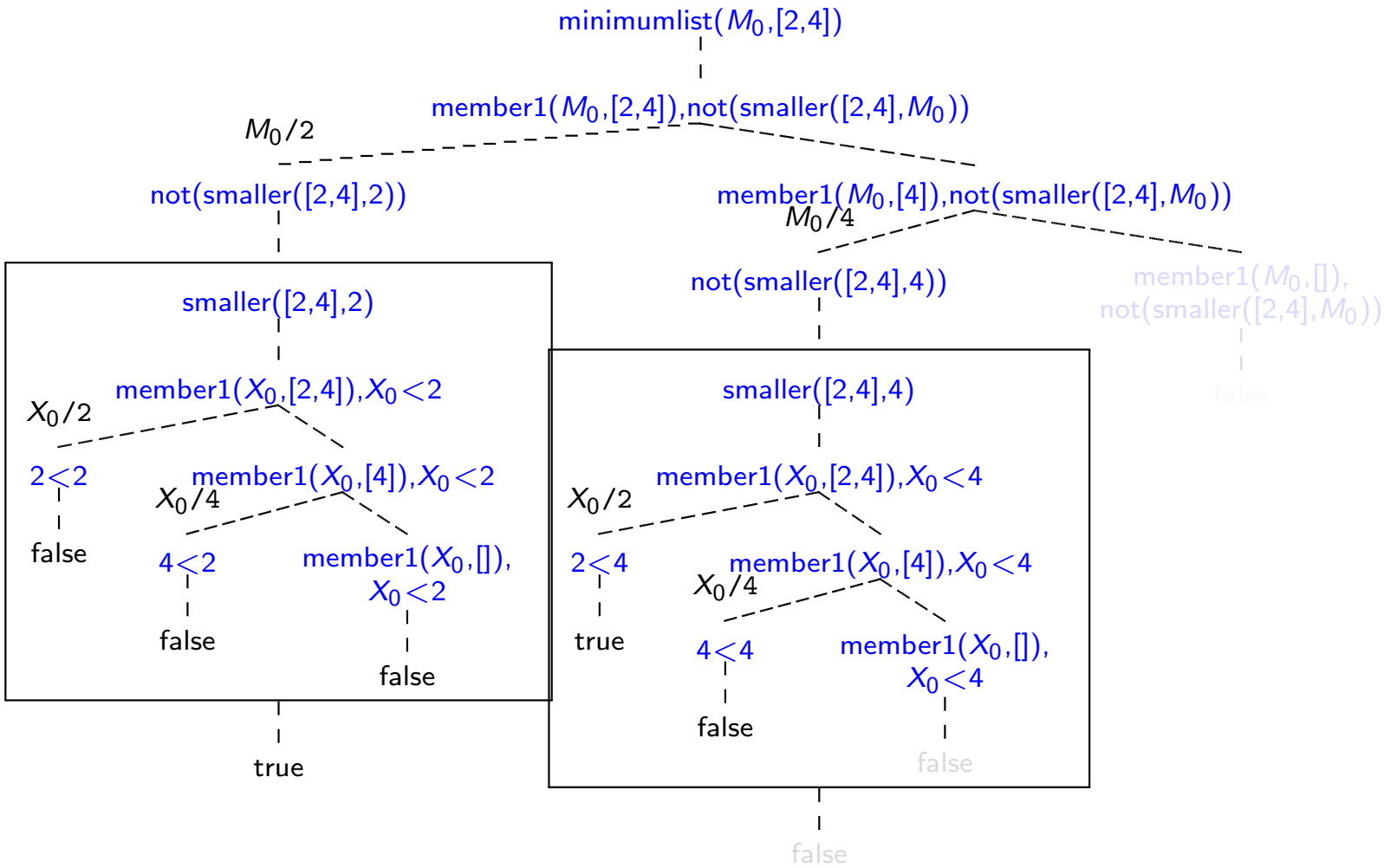

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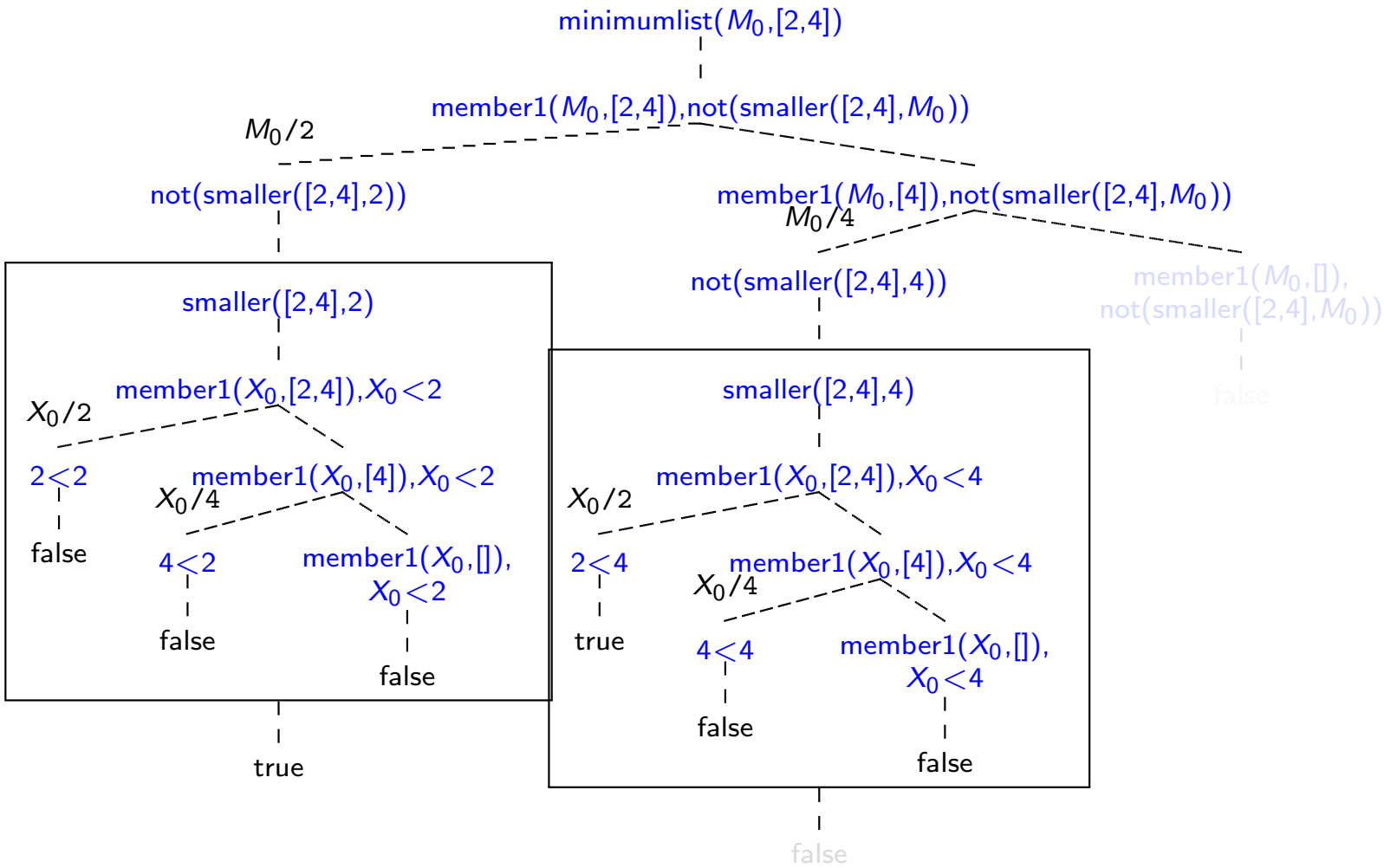

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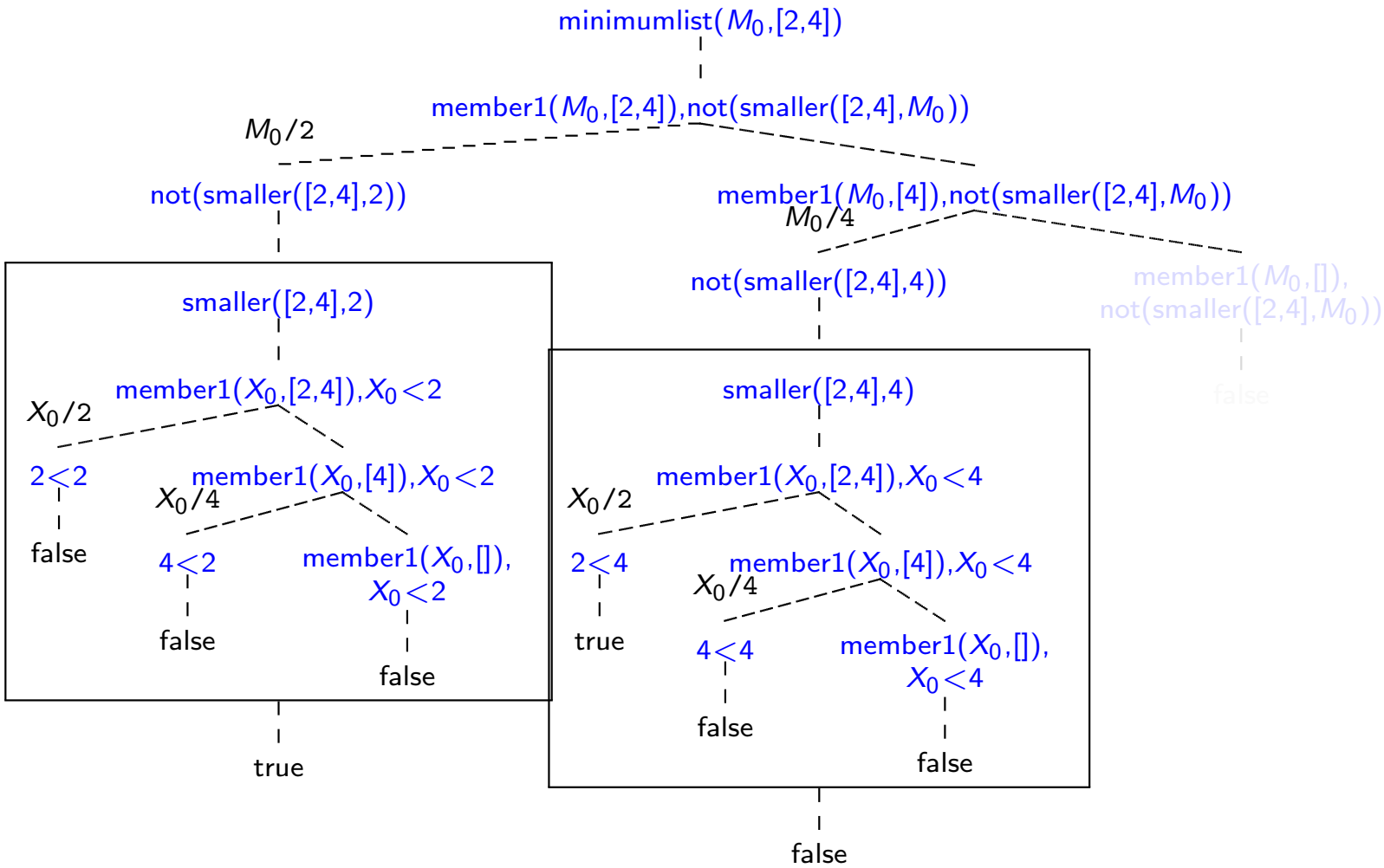

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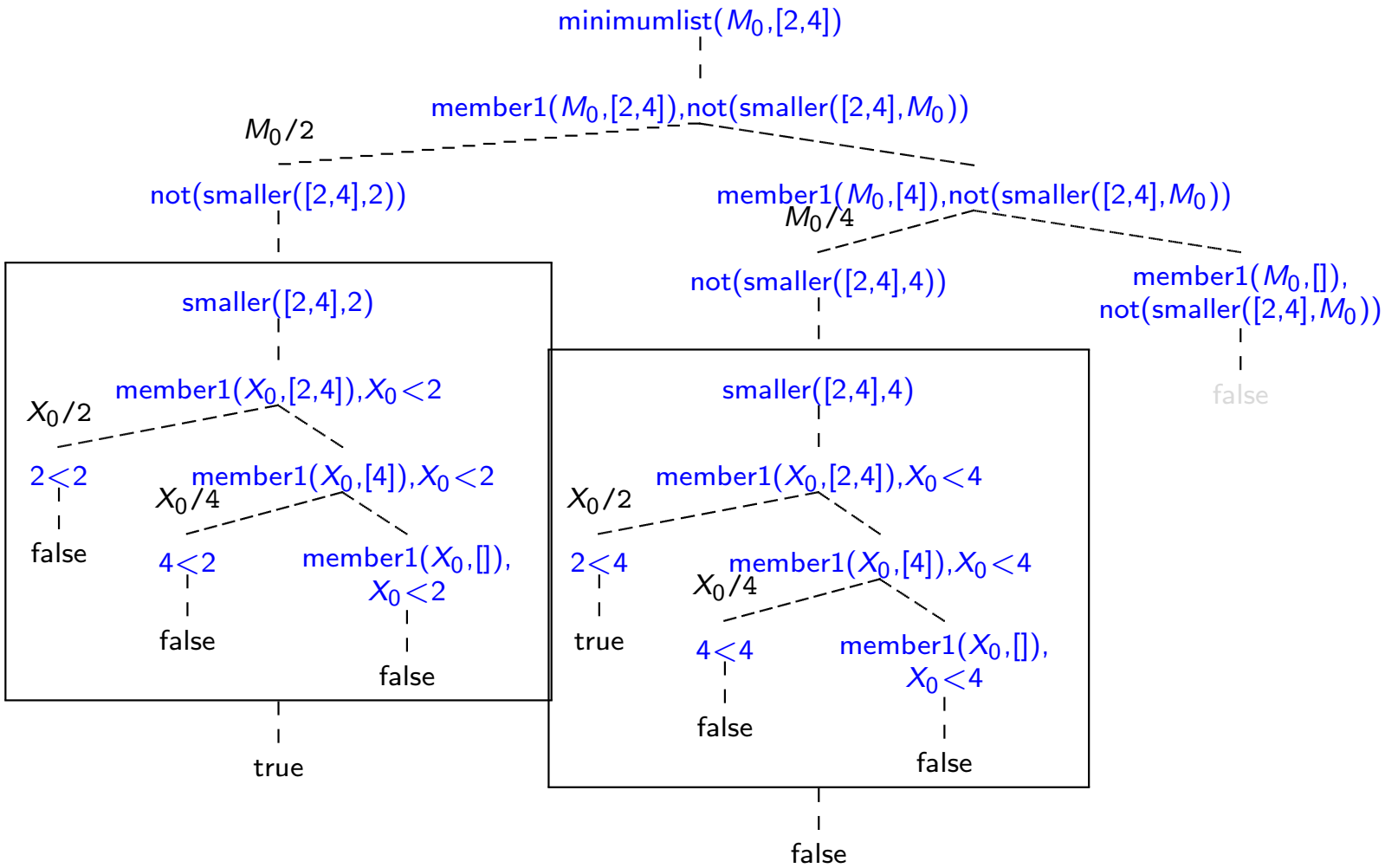

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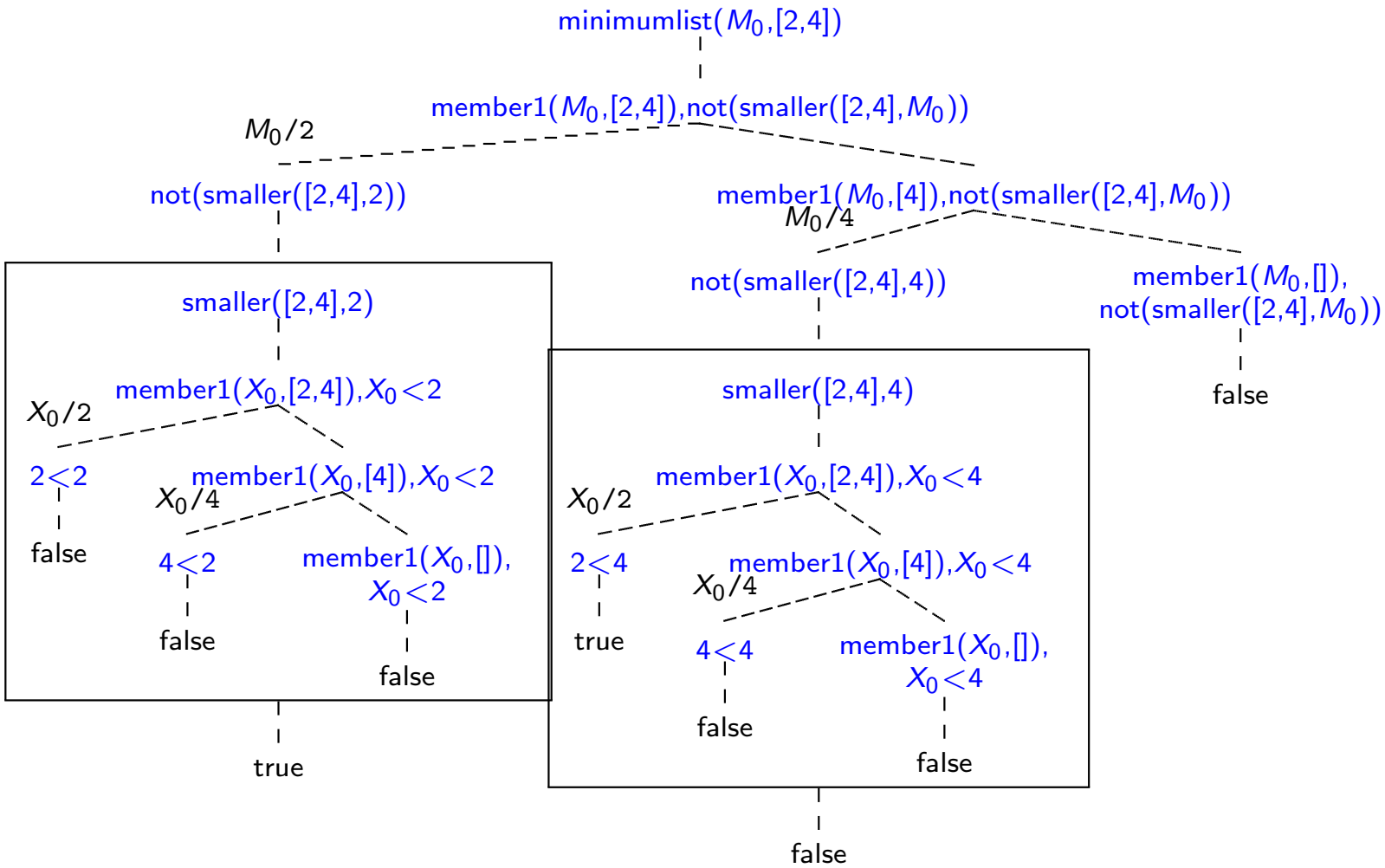
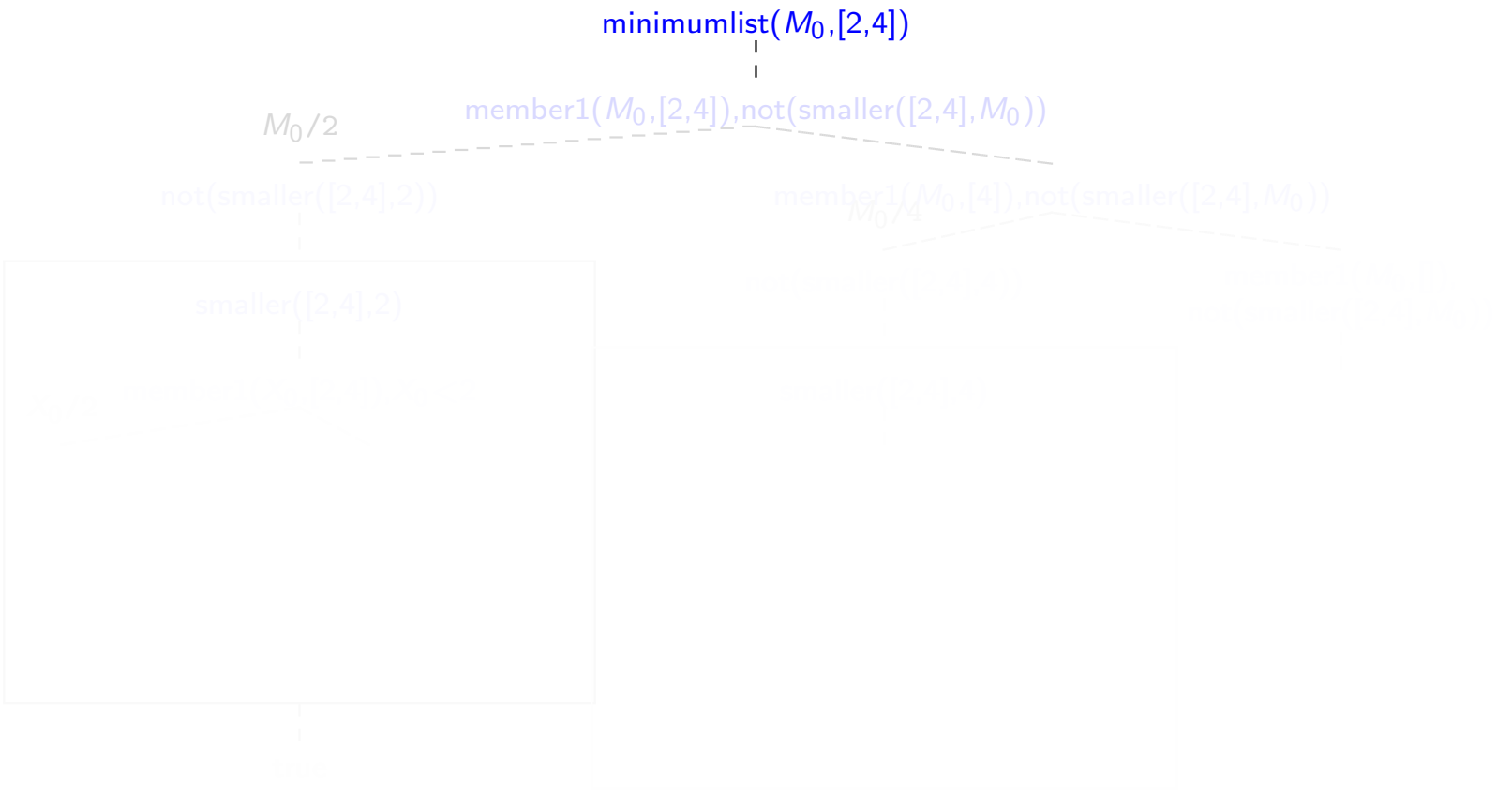


Transitions: Dissolve

The transitions available in pdf can be used. E.g., add `\transdissolve` to the LaTeX file to have a *dissolve* effect. Some renderers (e.g. Acrobat Reader) show the effect only in presentation mode. See the manual of the `beamer` class.



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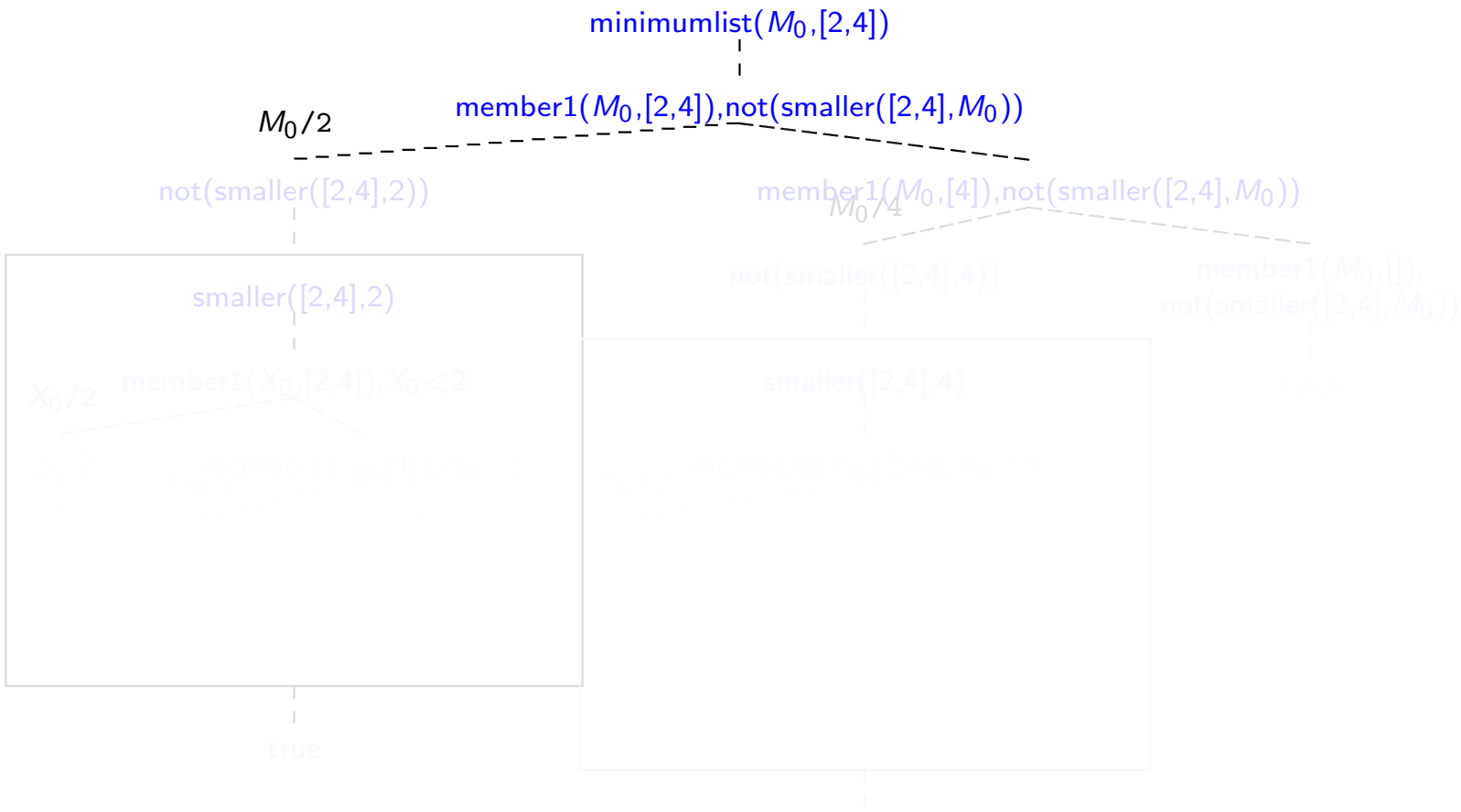

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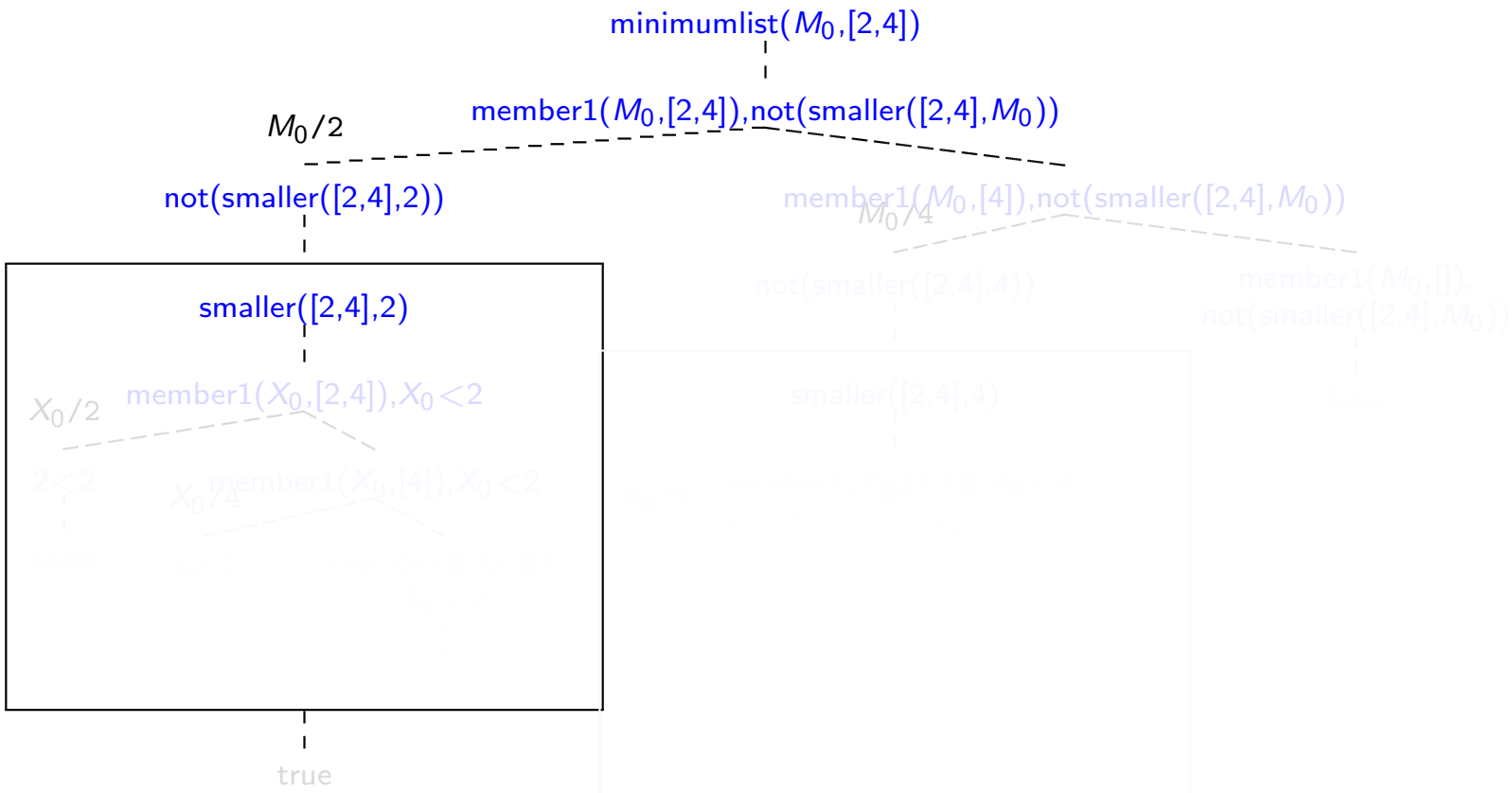

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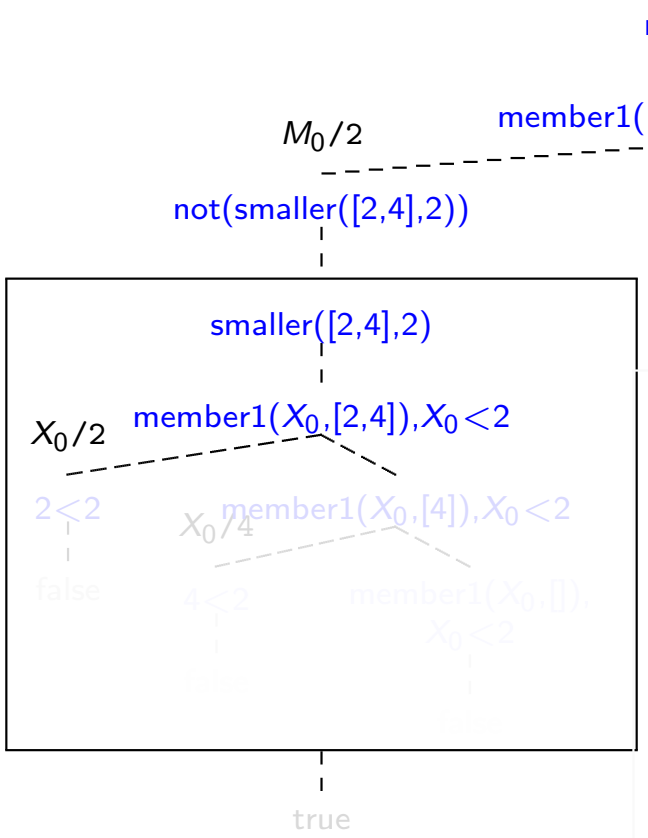

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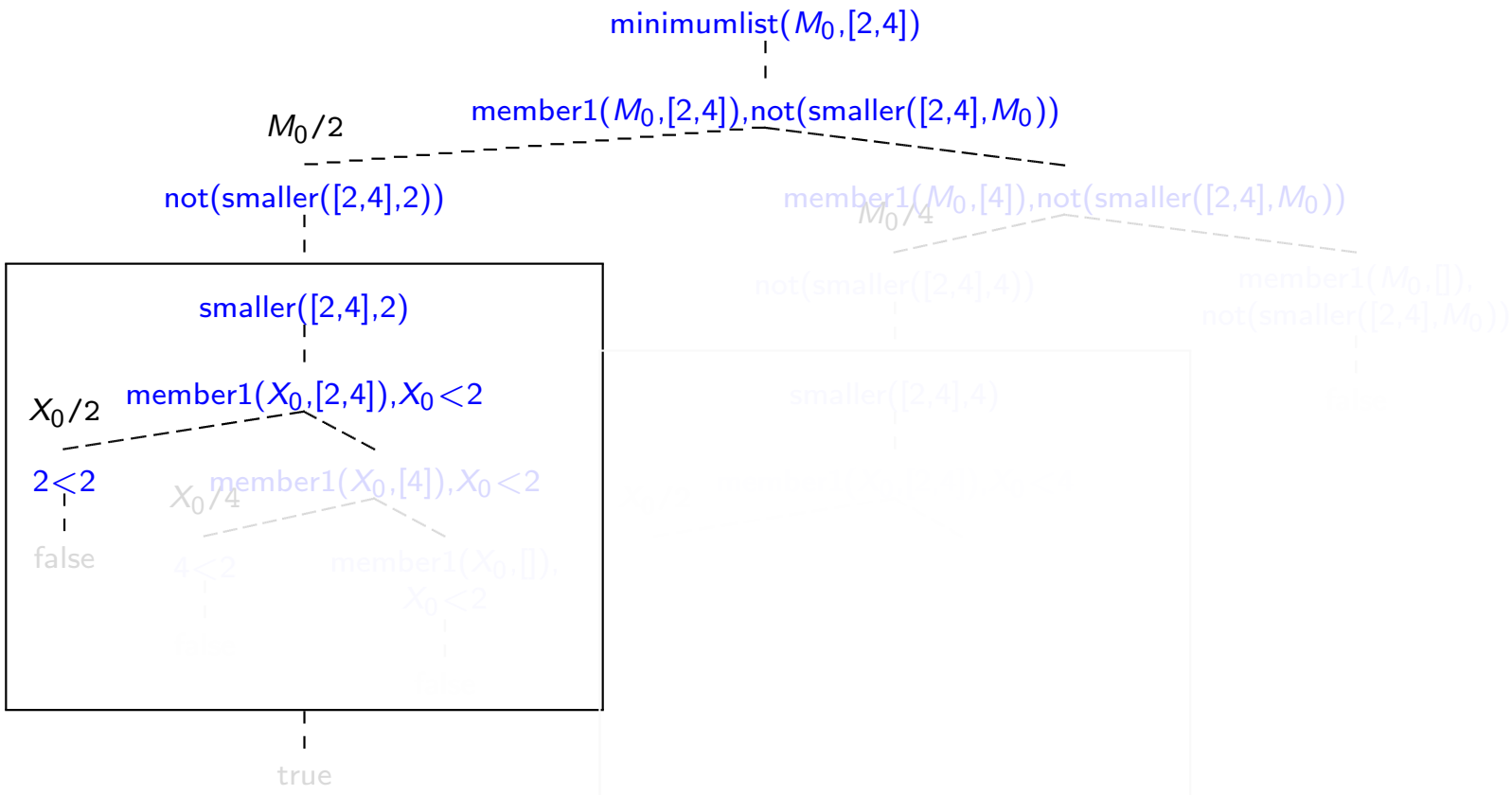

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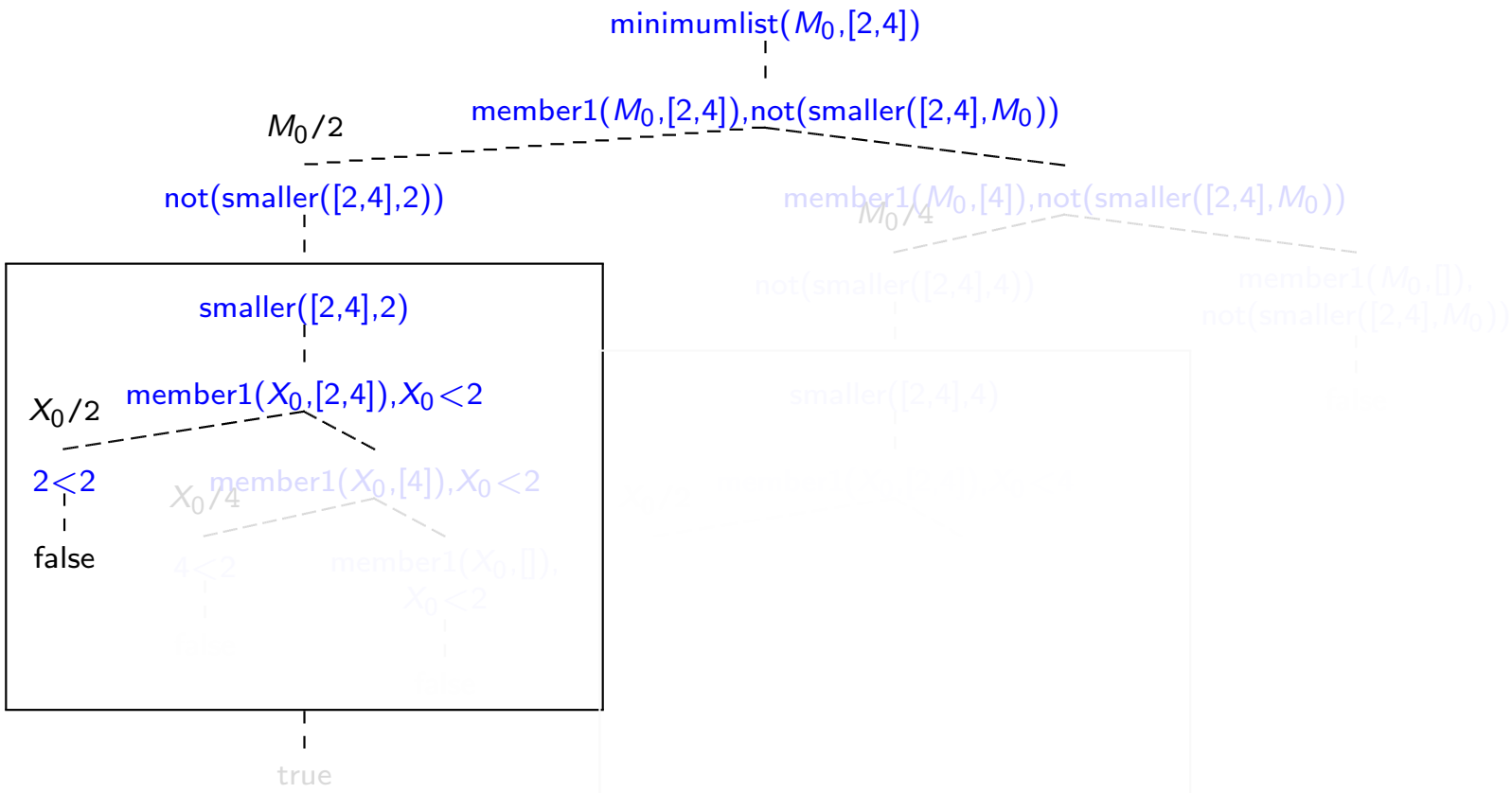

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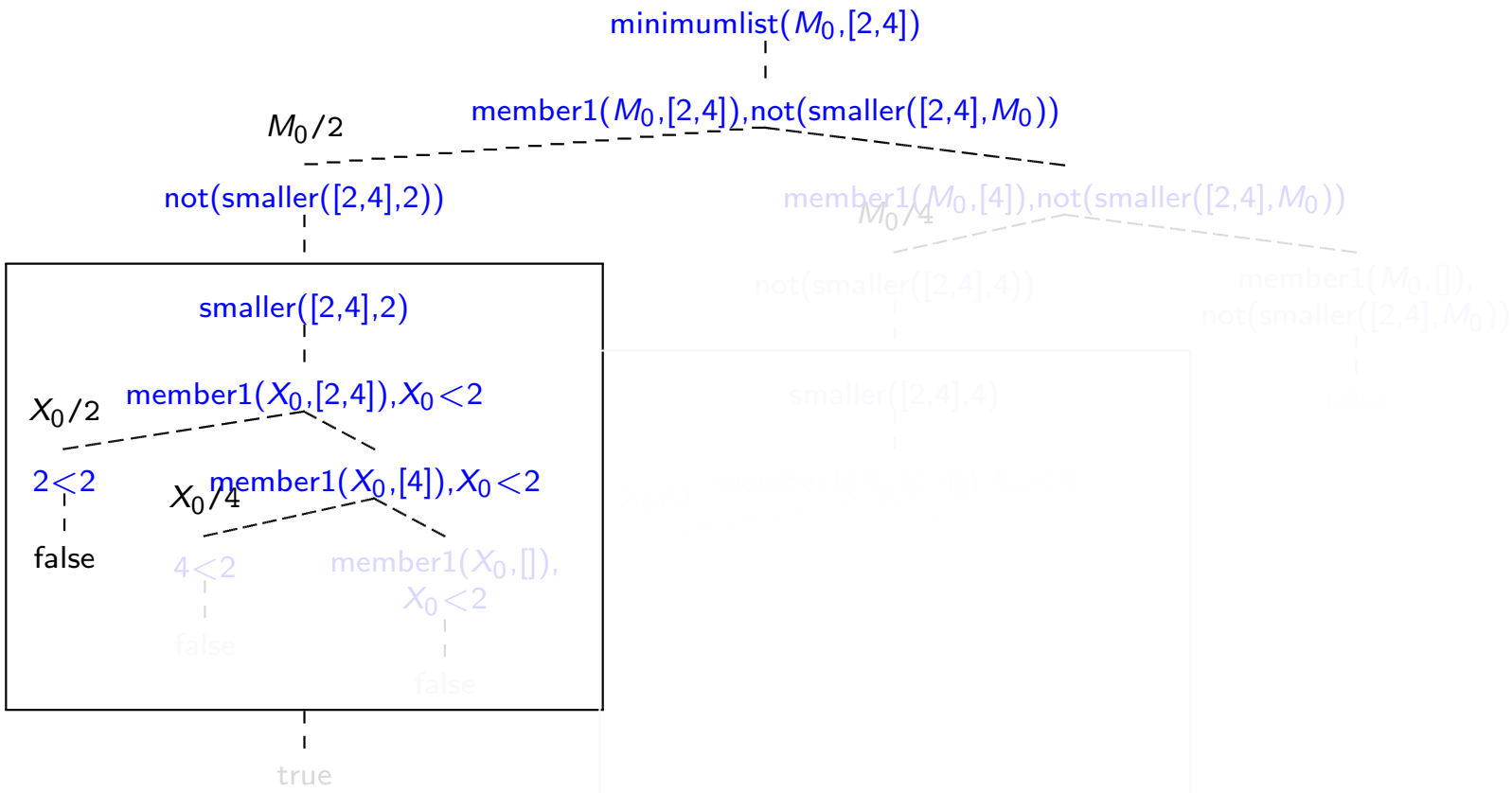

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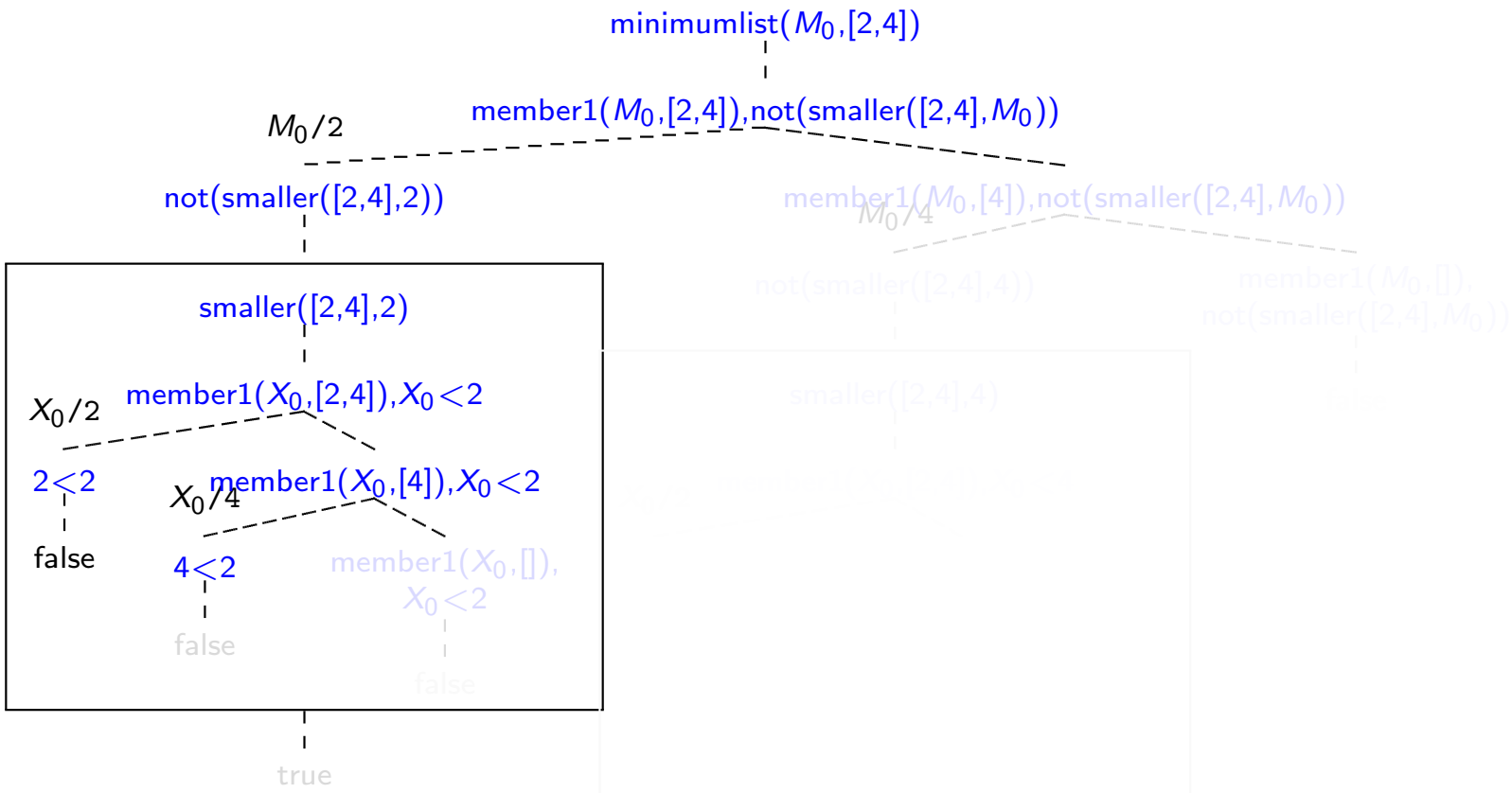

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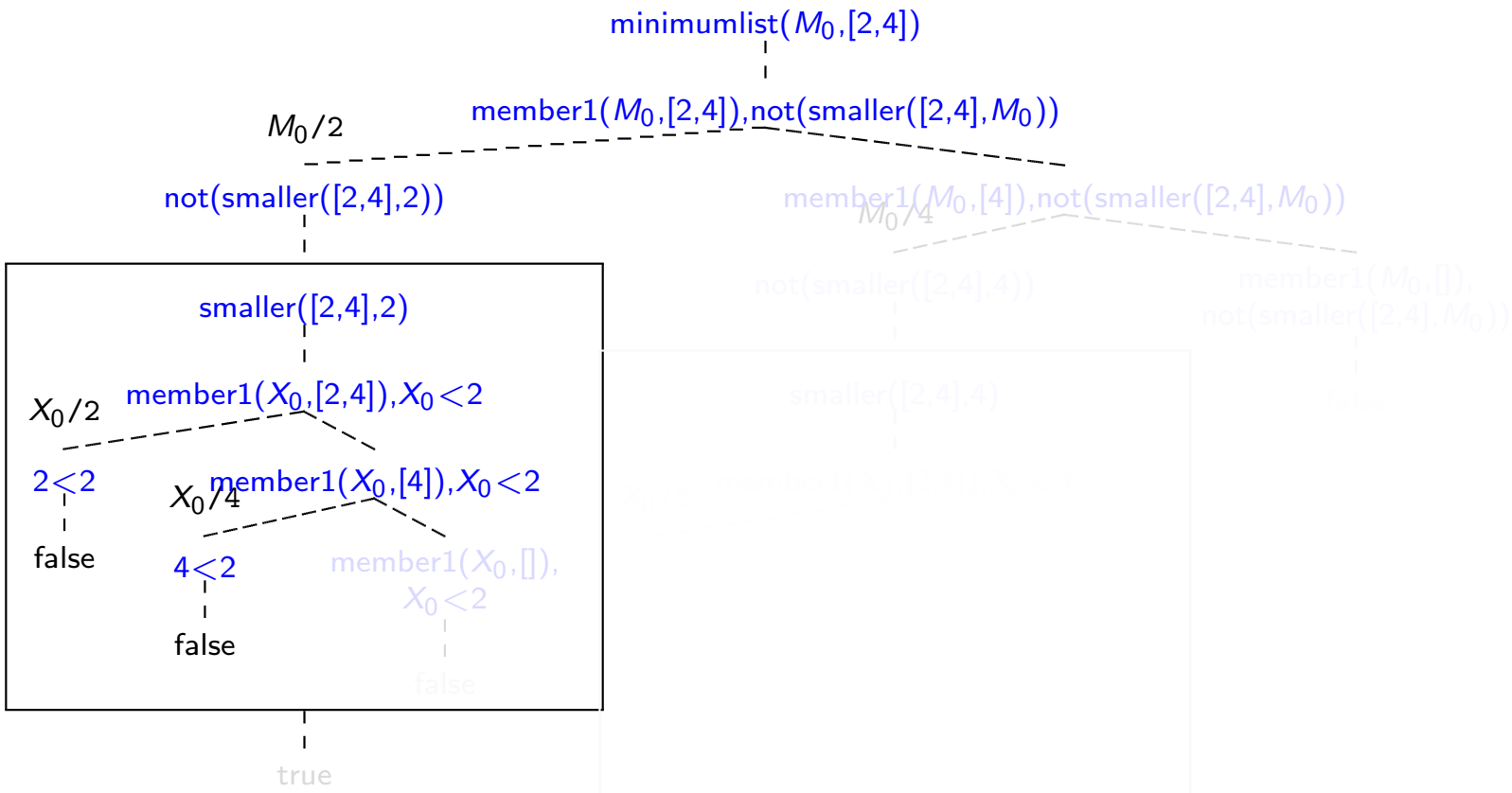

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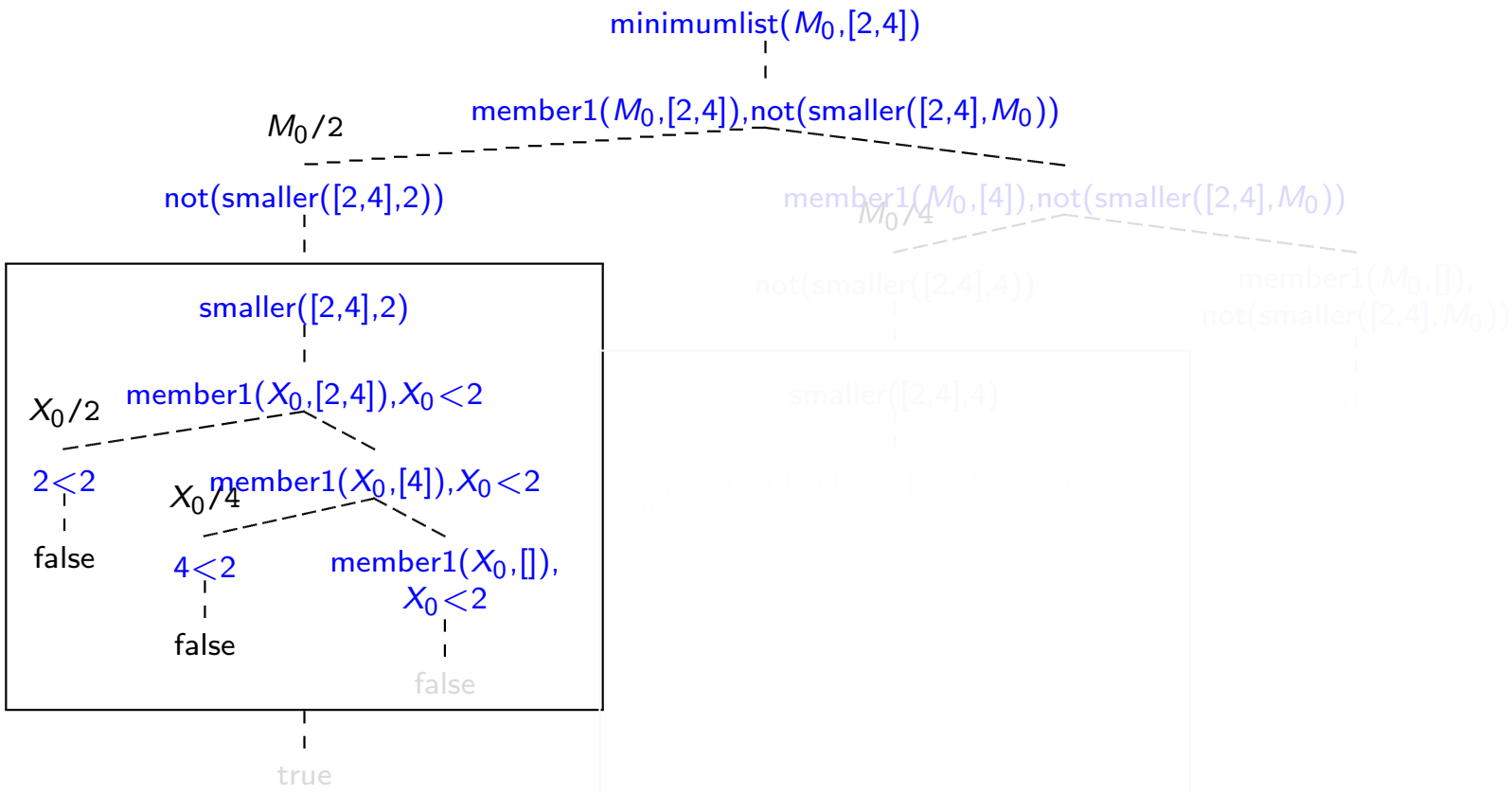

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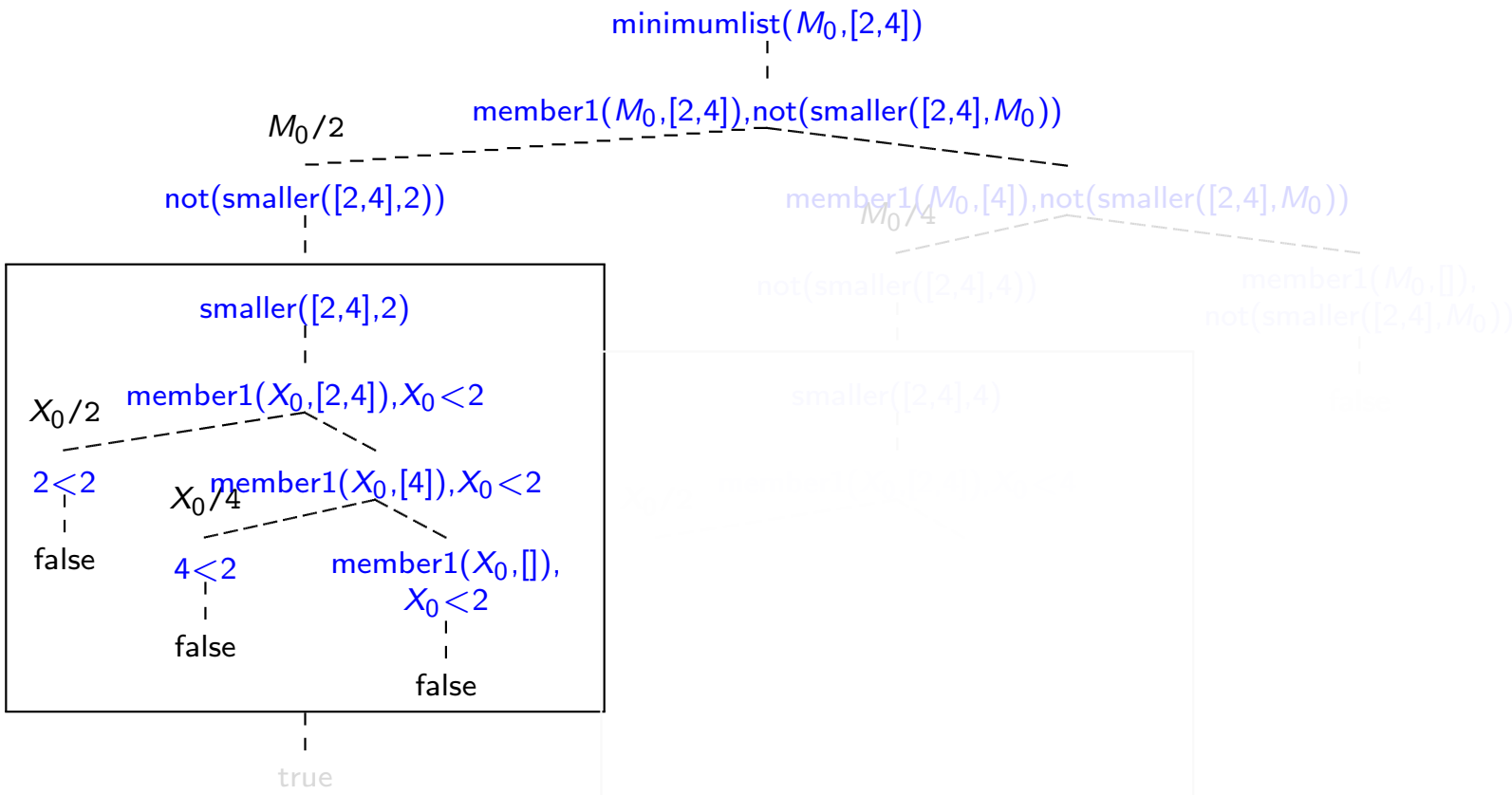

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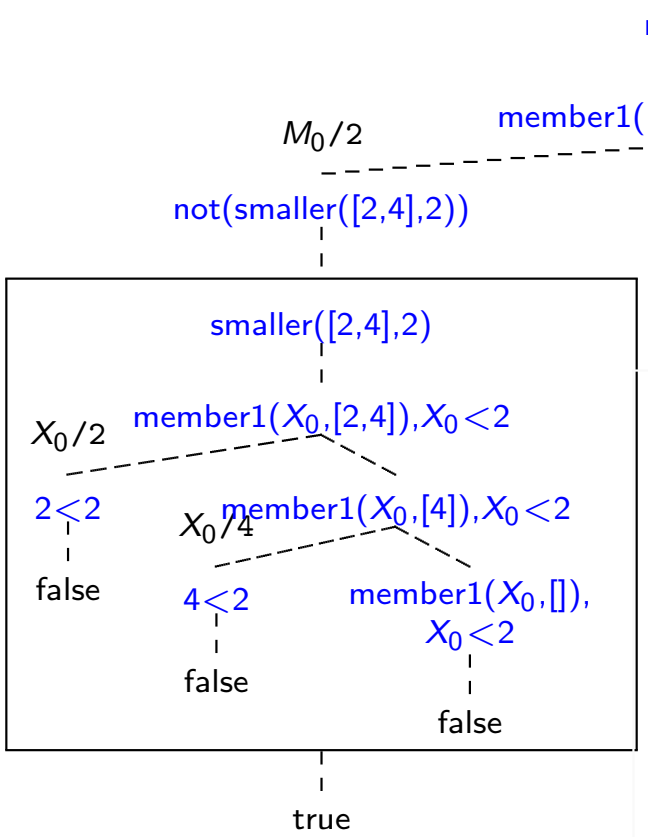

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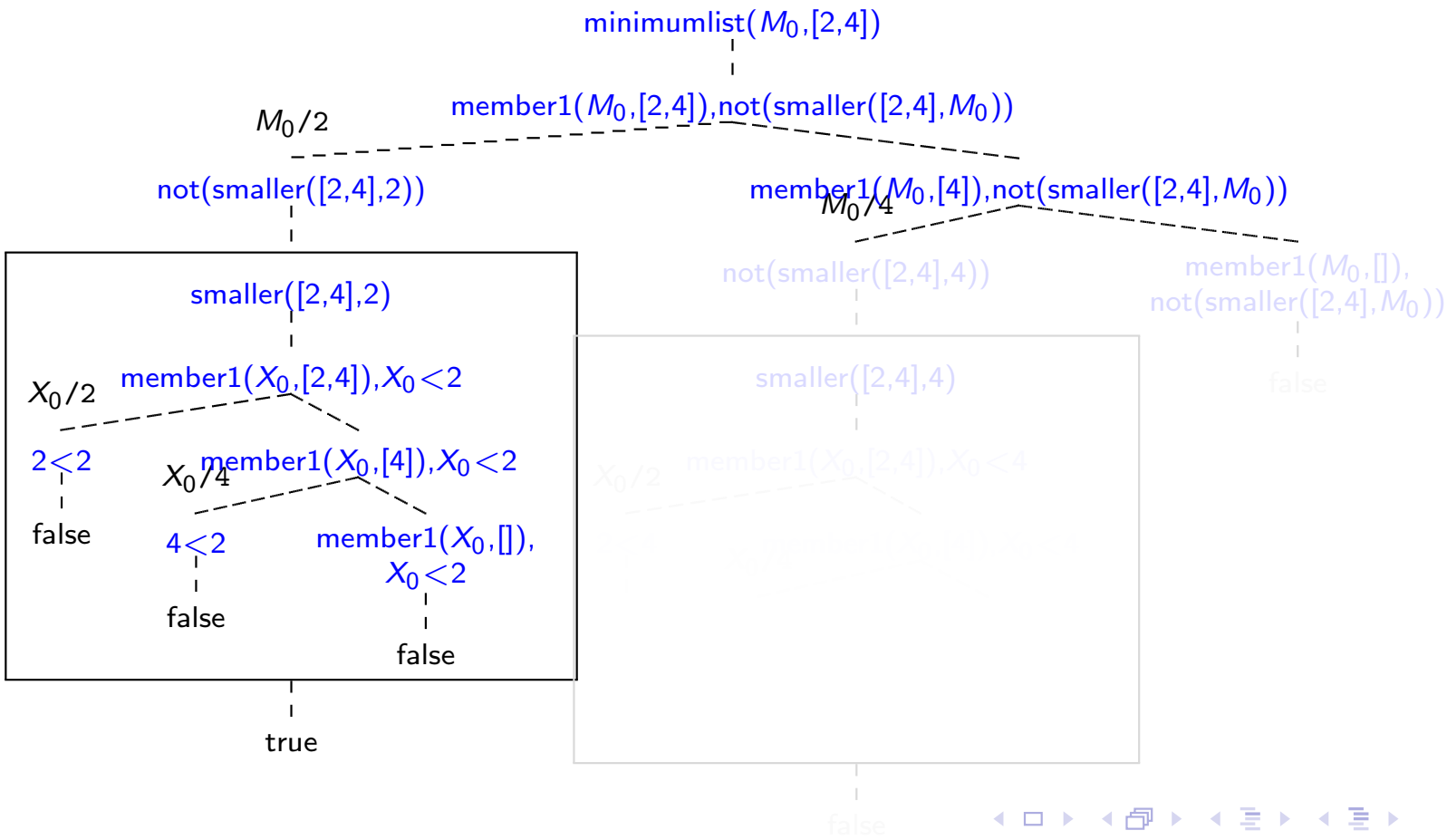

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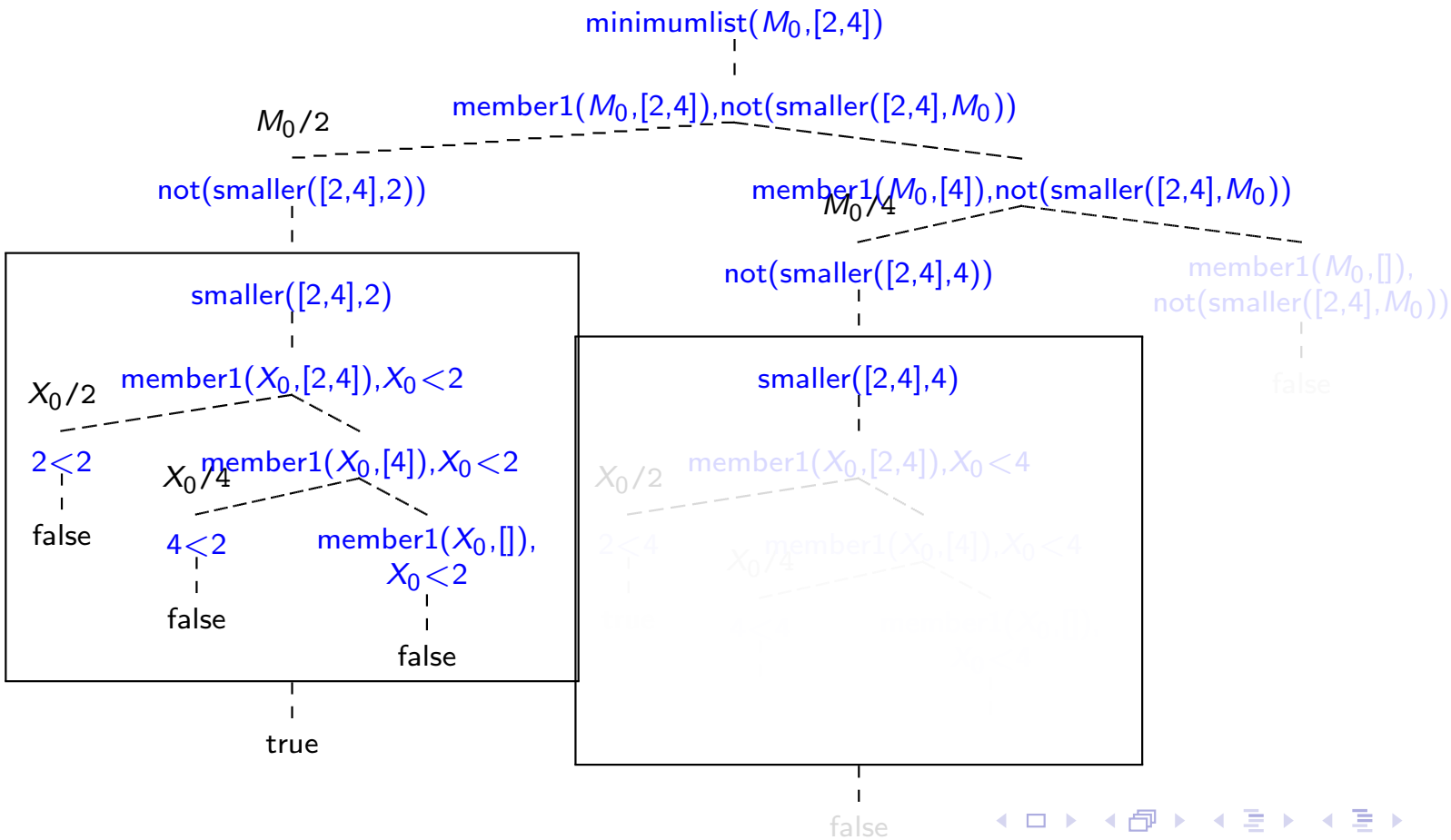

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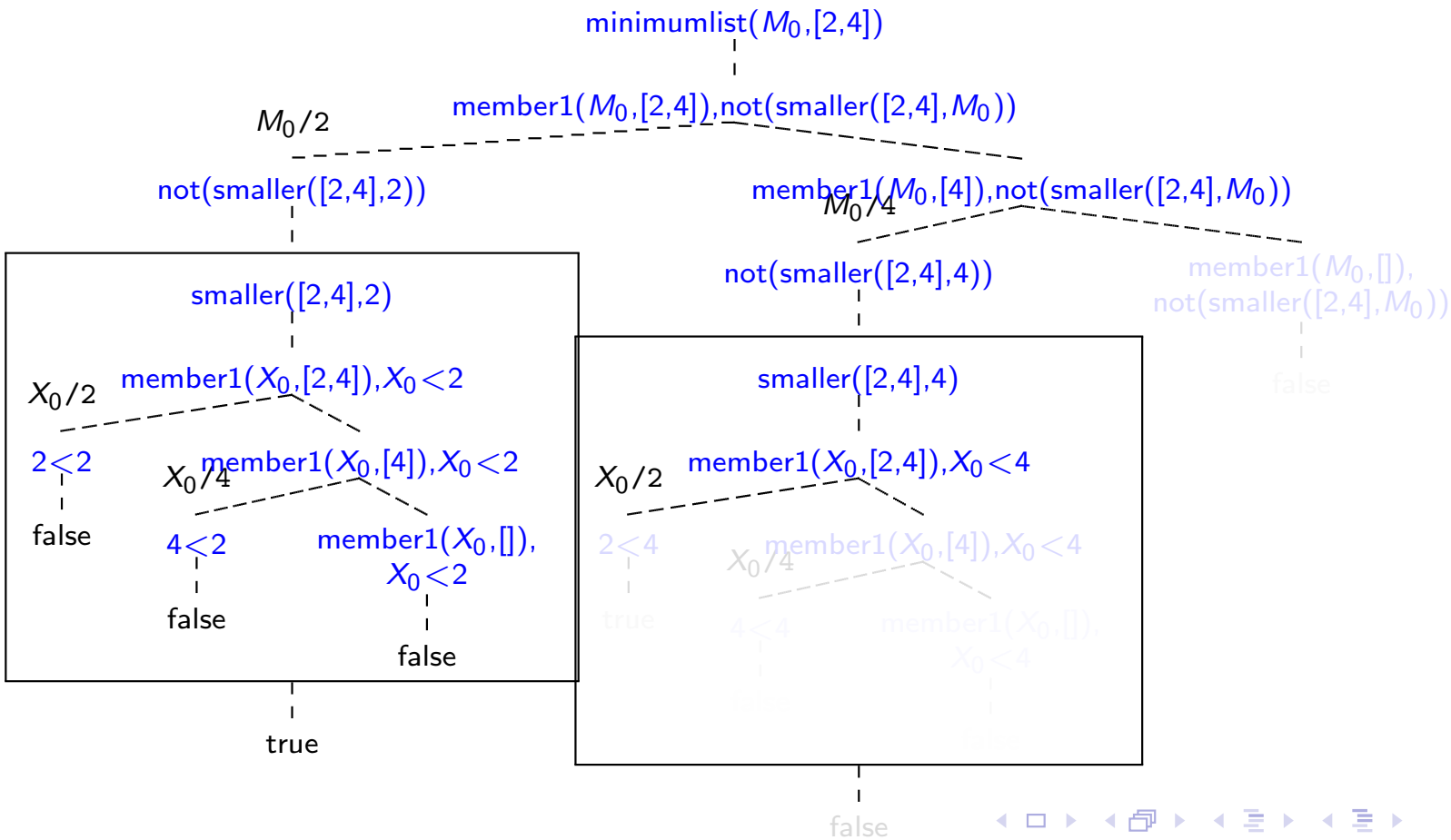

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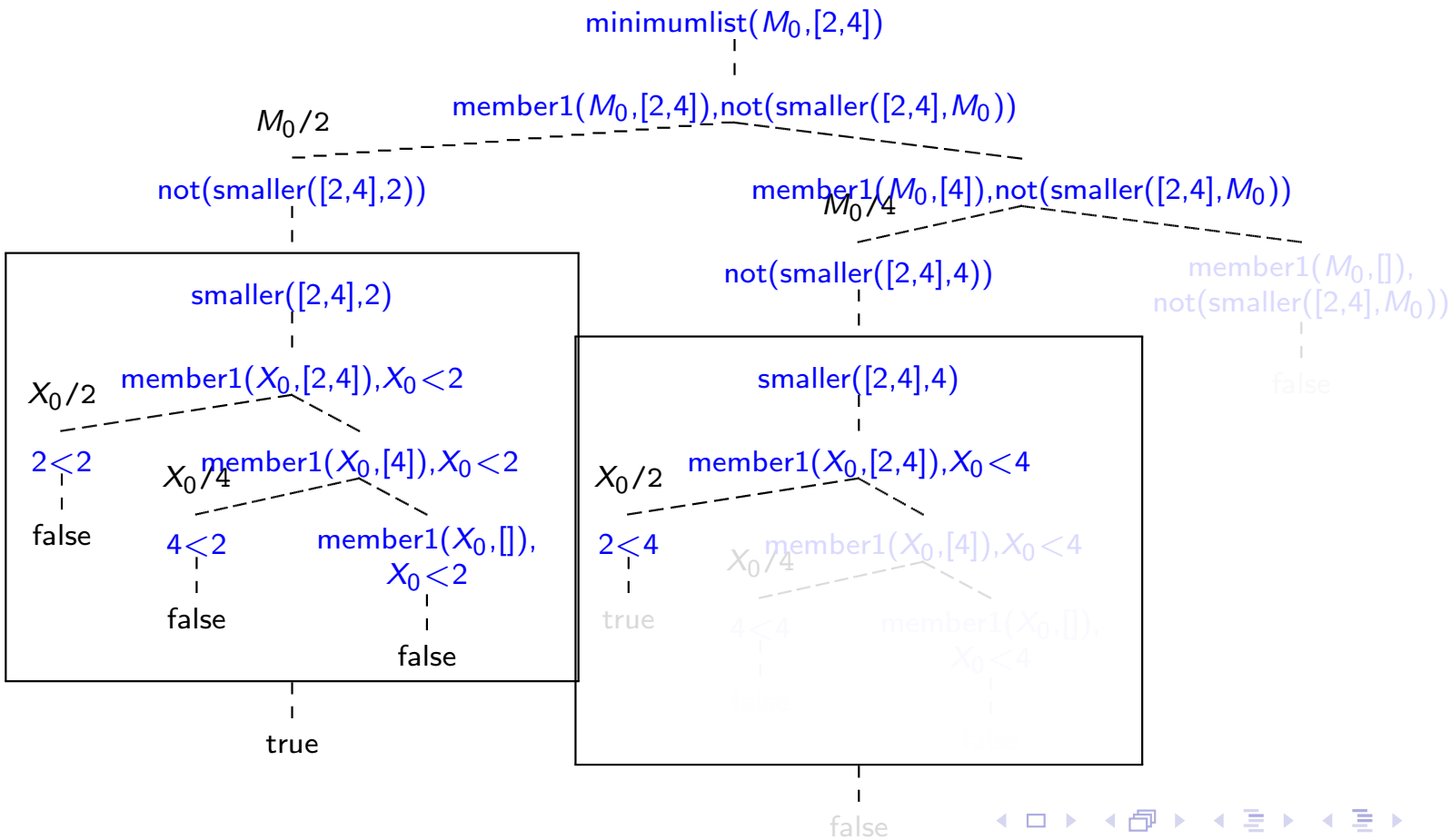

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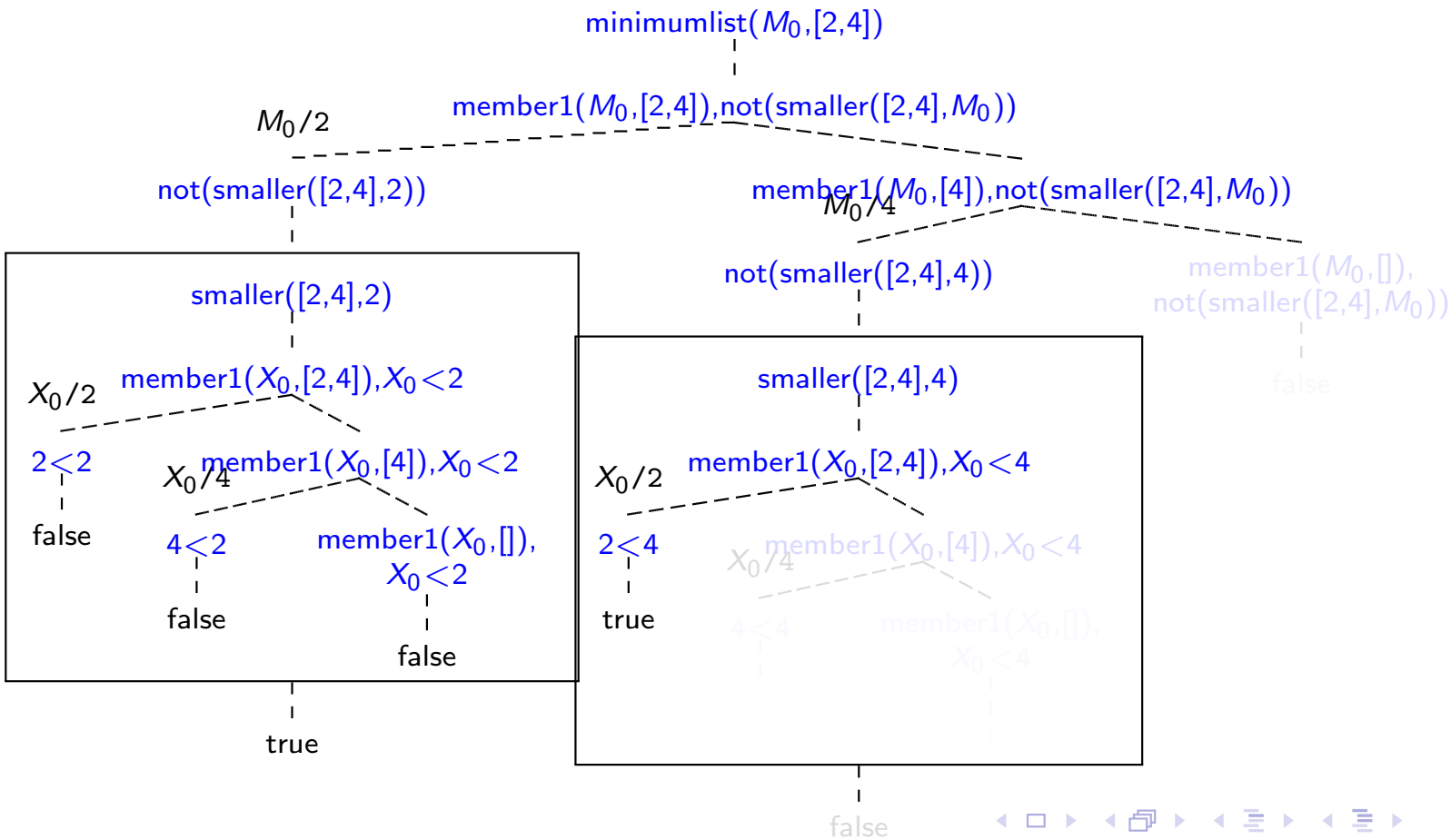

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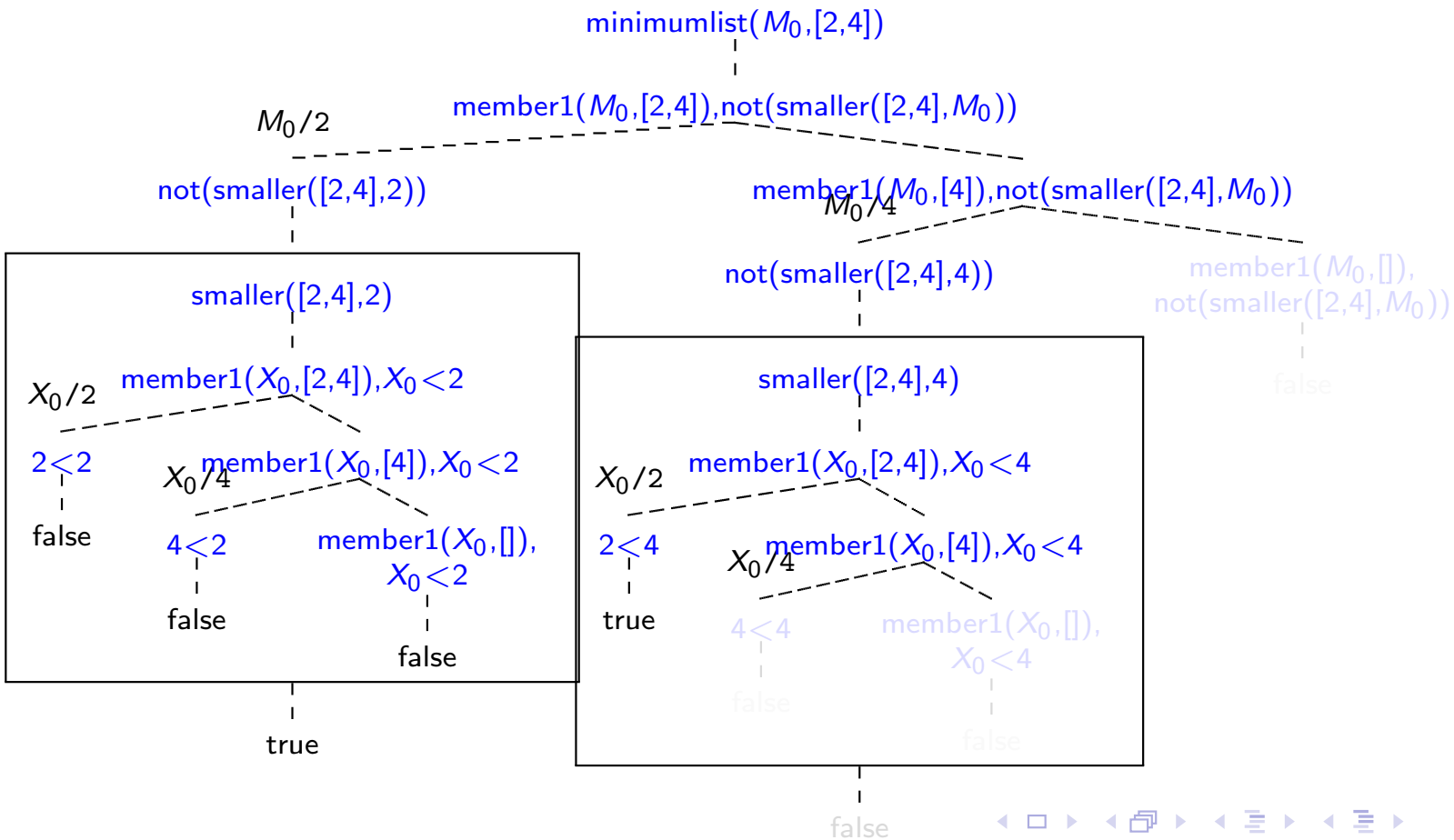

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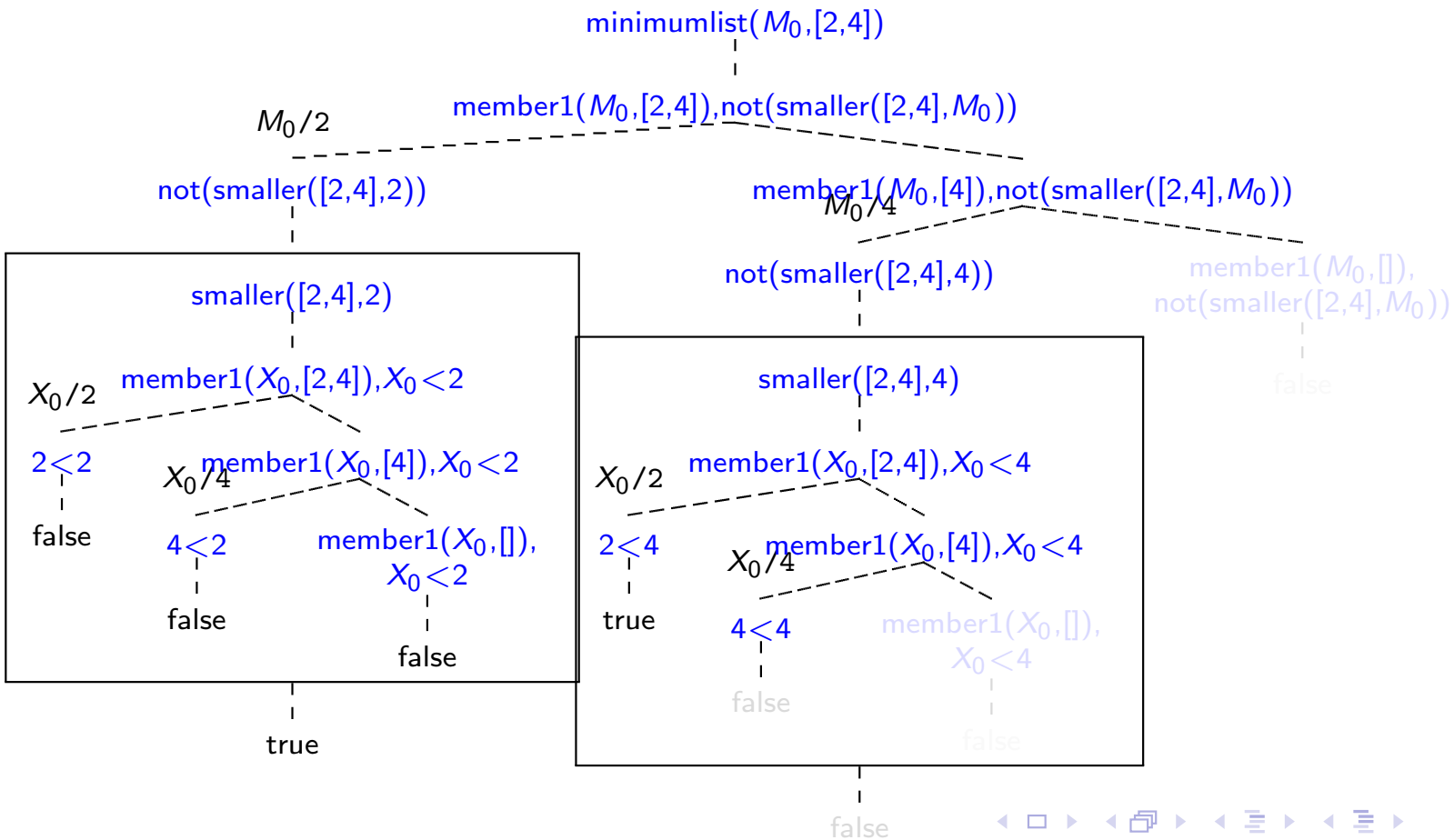

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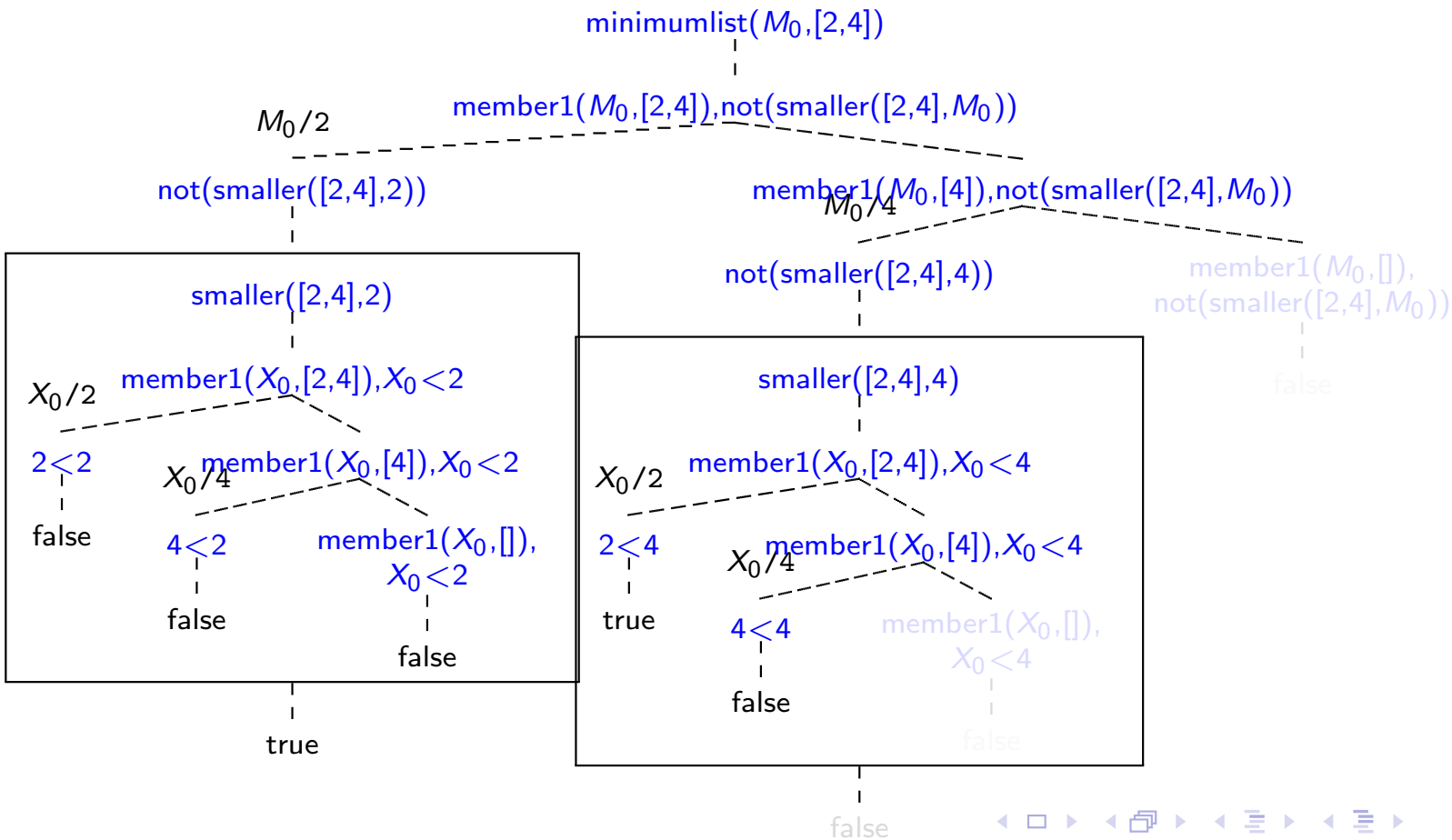

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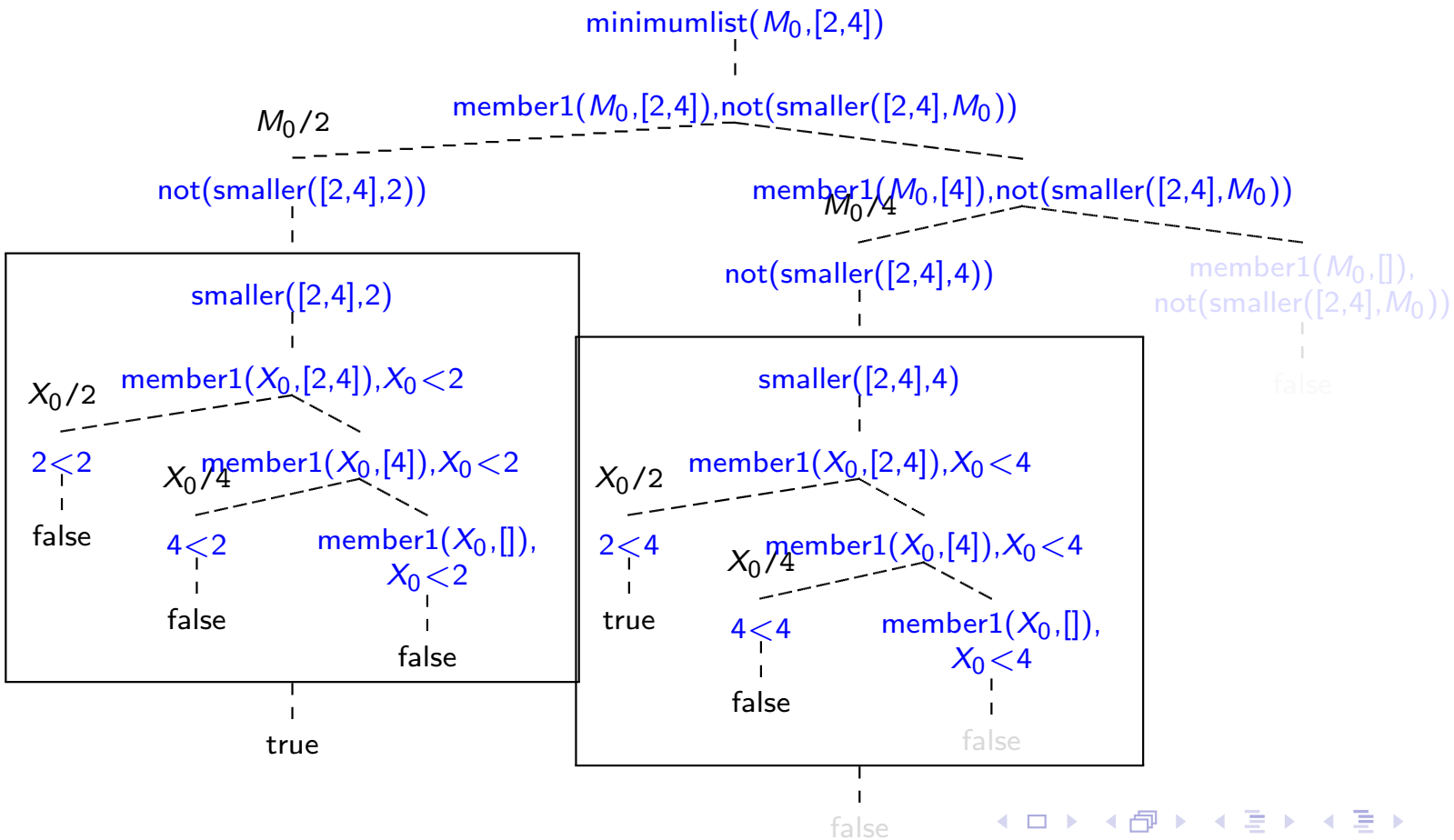

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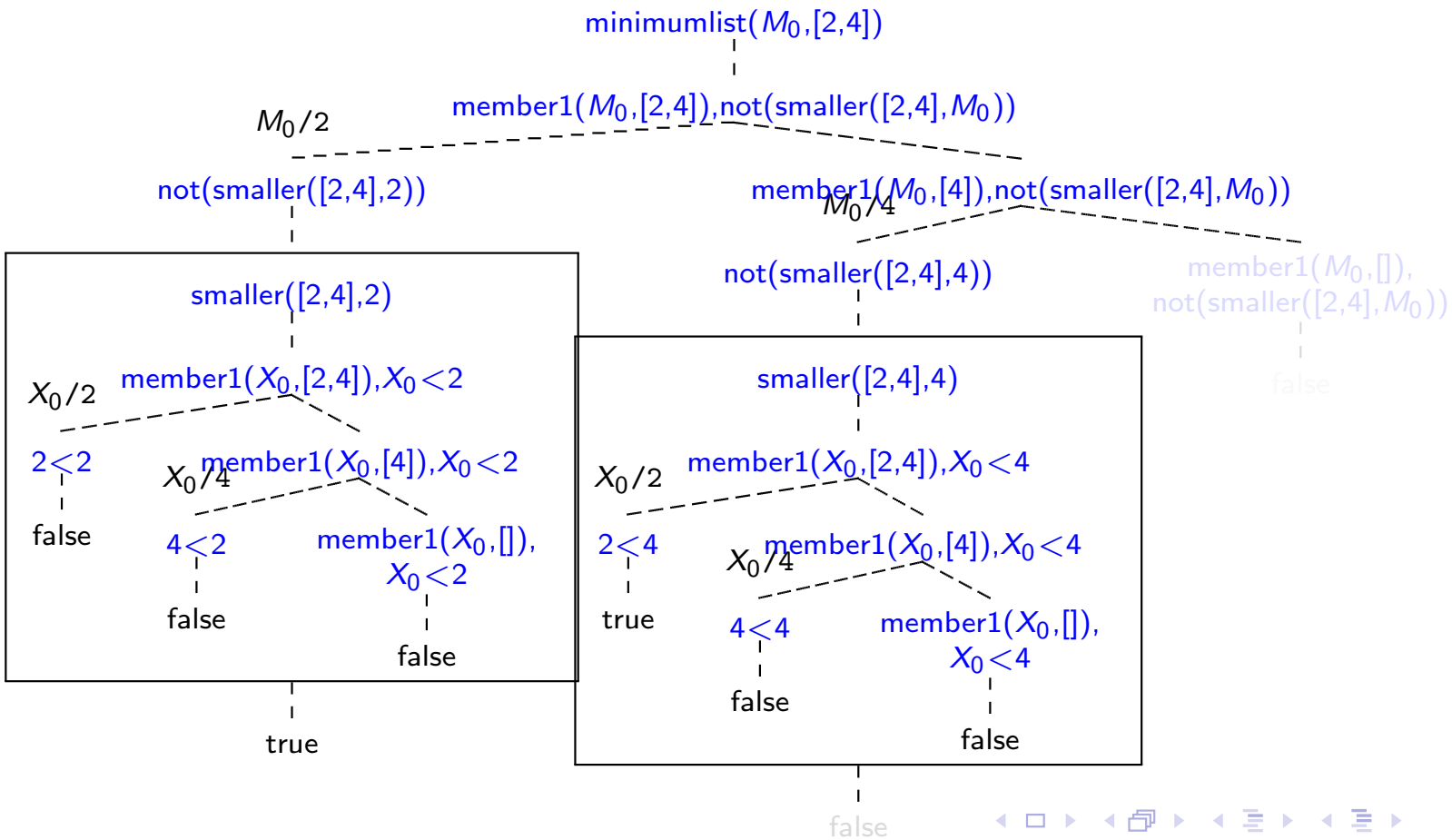

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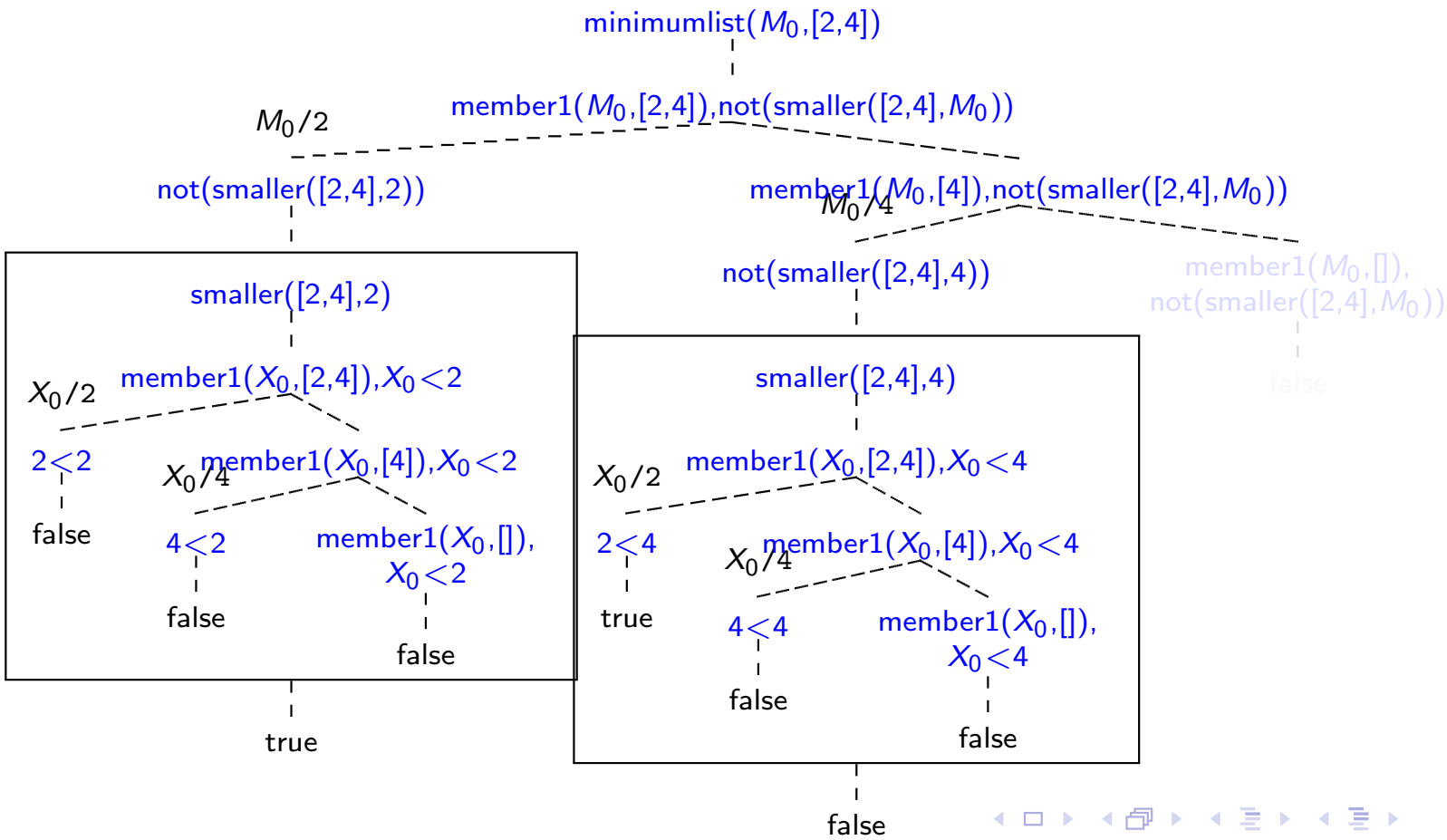

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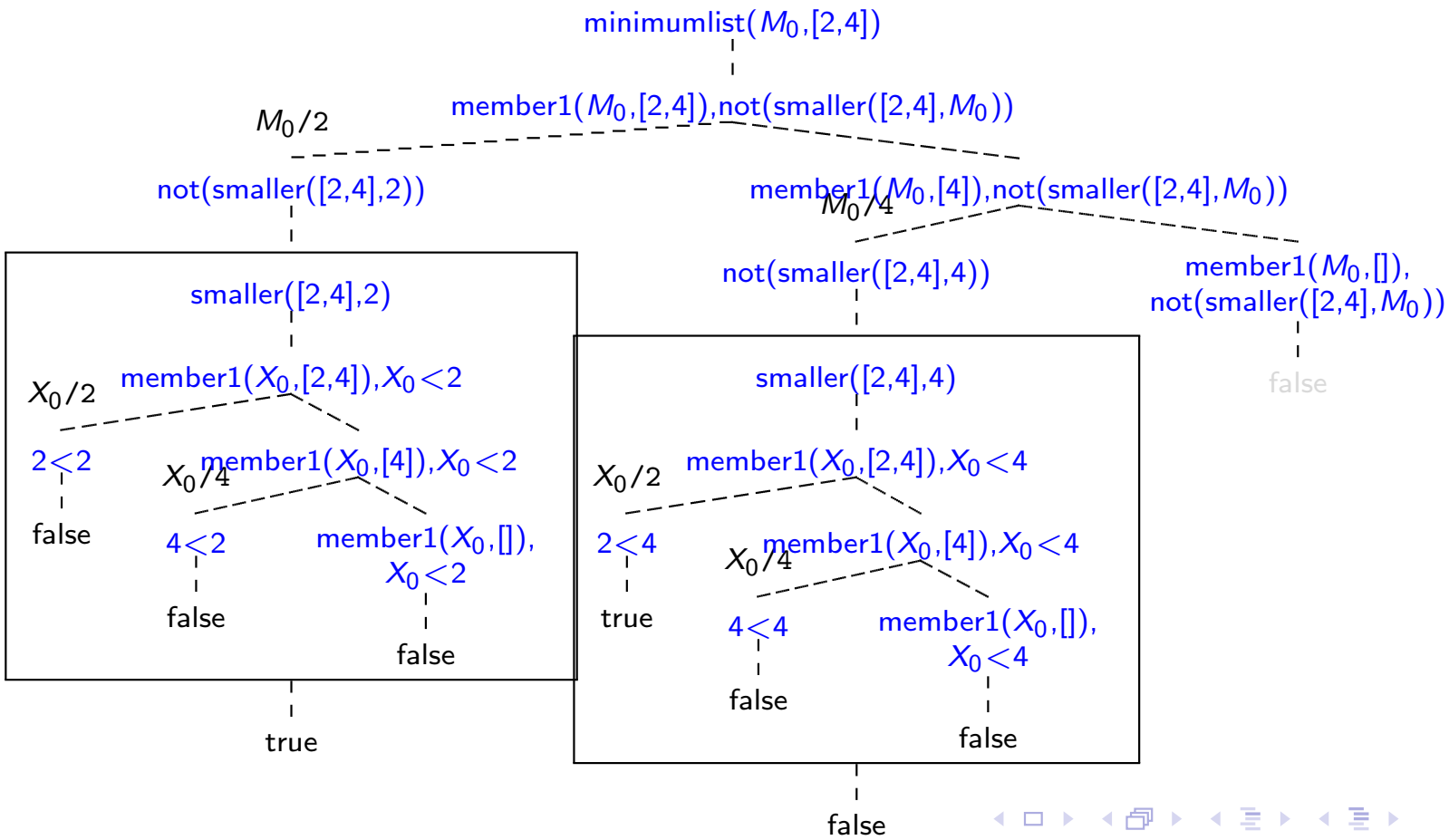

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