Let \( \text{truer} \) be a bunch of strings of binary values defined by the construction and induction axioms
\[
\top, \bot; \text{truer}; \text{truer} : \text{truer} \\
\top, \bot; B; B : B \Rightarrow \text{truer} : B
\]
Given a string of binary values, write a program to determine if the string is in \( \text{truer} \).