Combine your programs of Home works #1 and #2 to implement a mini-Prolog interpreter. Show that your interpreter is capable of handling the predicate \textit{append} using various queries, e.g., like those covered in class to find the last element of a list, to determine all sublists of a list, and so on.

It is strongly advised to follow closely the explanations of the procedure \textit{solve} with \textit{unification} that is presented in the slides and also in the paper that appeared in \textit{Comm. ACM}, December 85.