This is a classic example of a Prolog program, the append/3 predicate:

app([],X,X).

app([X|Y],Z,[X|W]) :- app(Y,Z,W).

Try now [running it](https://ciao-lang.org/playground/#app(%5B%5D,X,X).%0Aapp(%5BX%7CY%5D,Z,%5BX%7CW%5D)%20:-%0A%20%20%20%20%20app(Y,Z,W).%0A)!