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/?code=app(%5B%5D%2CX%2CX).%0Aapp(%5BX%7CY%5D%2CZ%2C%5BX%7CW%5D)%20%3A-%0A%20%20%20%20%20app(Y%2CZ%2CW).%0A)!