

74 Express formally that  $L$  is a sublist (not necessarily consecutive items) of list  $M$ . For example,  $[0; 2; 1]$  is, but  $[2; 0; 1]$  is not, a sublist of  $[0; 1; 2; 2; 1; 0]$ .

After trying the question, scroll down to the solution.

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$$\exists N: [\#L^* \square M] \cdot L = M N \wedge \forall i, j: \square N \cdot i < j \Rightarrow N i < N j$$

Another solution is to define  $sub\ L\ M$  as follows:

$$sub\ L\ M = \#L=0 \vee \exists i: \square M \cdot L 0 = M i \wedge sub\ (L[1;..\#L])\ (M[i+1;..\#M])$$

But we should wait to Chapter 6 for that one.