

134 Write a formal specification of the following problem: change the value of list variable L so that each item is repeated. For example, if L is $[6; 3; 5; 5; 7]$ then it should be changed to $[6; 6; 3; 3; 5; 5; 5; 5; 7; 7]$.

After trying the question, scroll down to the solution.

§ $\#L' = 2 \times \#L \wedge \forall i: \square L \cdot L'(2 \times i) = L i = L'(2 \times i + 1)$
or $\#L' = 2 \times \#L \wedge \forall i: \square L' \cdot L' i = L(\text{div } i \ 2)$