# SICP Exercise 3.14

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In general, `mystery` reverses a given list. The box-and-pointer diagram that represents the list to which `v` is bound is given as follows.
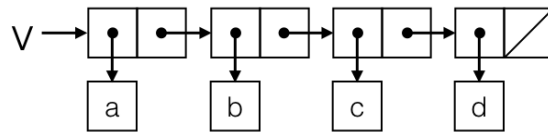


Figure 1: Effect of **(define v (list 'a 'b 'c 'd))**.

After evaluating **(define w (mystery v))**, the box-and-pointer diagrams that show the structure `v` and `w` are given as follows.
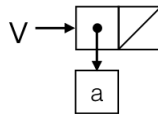


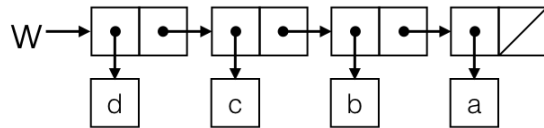Figure 2: Structure of **v** after evaluating **(define w (mystery v))**.



Figure 3: Structure of **w** after evaluating **(define w (mystery v))**.

**(a)**, **(d c b a)** would be printed as the values of `v` and `w`, respectively.