Searching in a List (Q)

- Search for a target \( x \) in a list \( v \)
- Start at index 0, keep checking \textit{until} you find it or \textit{until no more element to check}

Suppose another list is twice as long as \( v \). The expected “effort” required to do a linear search is

A. Squared
B. Doubled
C. The same
D. Halved
E. I don’t know

Effort is \textit{linearly} proportional to list size. Needs \( n \) comparisons for list of size \( n \) (at worst case).