

def member (x: any, v: List) → bool
"Determines if x is in v."
"""

If $v = []$
return False

If $v[0] = x$:
return True

Else

return member (x, v[1:])

subset (v: List, w: List) → bool:

"Determines whether

v is a subset of w, provided
that $v \neq []$."

"""

If $v = []$:

return True

If member (v[0], w):

return subset (v[1:], w)

Else

return False