## FCPL – Test 1 – Tatu Bogdan

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1. (rotate-right (rotate-right '(a (b c) ())) Implement and give the result!
(defun rotate_right (lst)
  (setq reversed_lst (reverse lst))
  (cons (car reversed_lst) (reverse (cdr reversed_lst)))
)
Result: ((B C) NIL A)
* NIL or (), it is the same thing
2. member Explain the functioning. Give two examples!
Member takes 2 arguments and tries to find the 1st arg in the 2nd (list)
If it finds the member it returns the list from that member onward, else it returns nil
(member 'b '(a b c d))
# (b c d)
(member 'f '(a b c d))
# NIL
3. Nil, Null and ()! Compare it! Examples!
Null is a predicate and it takes an argument
It returns true if argument is NIL or ()
NIL and () are the same
4.
(SETQ B 'C); sets B as C
# C
(SETQ C 'D); sets C as D
(EVAL B); evals B -> C which is D
# D
EVAL determines another evaluation of the argument
B would print C, so (EVAL B) evaluates B as C, then C would print D
       Give the result and explain!
5. (CONS '(B C) '(A B C)) Explain the result and give it!
((B C) A B C)
Sets (B C) as head of list (A B C) so it returns ((B C) A B C)
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