

Computer Science
LISP worksheet #2

Name -

Do the following exercises. Evaluate the final expression. **Be sure to enclose answers that are lists in parentheses and to write answers that are individual atoms without parentheses.**

1.
(SETQ x '(alpha beta zeta))
(CAR x)
2.
(SETQ autos '(chevy ford dodge))
(CDR autos)
3.
(SETQ m (ADD 1 3))
(CAR m)
4.
(SETQ m '(ADD 1 3))
(CAR m)
5.
(SETQ students '(art bob chris dana))
(CAR (CDR students))
6.
(SETQ elements '(H He Li B Au))
(CDR (CAR elements))
7.
(SETQ presidents '(Abe George John Ronald))
(REVERSE (CDR presidents))
8.
(SETQ careful '((a b) c d))
(CAR careful)
9.
(SETQ reallycareful '((m n) p (q r)))
(CDR (REVERSE reallycareful))
10.
(DEF addTwo(x) (ADD x 2))
(addTwo 13)
11.
(DEF tax(x) (MULT x 0.06))
(DEF rebate(x) (SUB x 3))
(rebate (tax 10))