ANSI Common Lisp Practice

ismdeep

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ANSI Common Lisp Practice, ismdeep

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1 chapter-01

1.1 01

1.2 02

2 chapter-02

2.1 01

```
(format t "~A~%" (+ 1 2))
(format t "~A~%" (+ 1 2 3 4 5))
(format t "~A~%" (/ (- 7 1) (- 4 2)))
```

2.2 02

```
(format t "~A~%" (quote (+ 3 5)))
(format t "~A~%" '(+ 3 4))
```

2.3 03

```
(format t "~A~%" 'Hello)
(format t "~A~%" '(my 3 "Sons"))
(format t "~A~%" (list 'my (+ 2 1) "Sons"))
(format t "~A~%" ())
(format t "~A~%" nil)
```

2.4 04

```
(format t "~A~%" (cons 1 '(2 3 4)))
(format t "~A~%" (car '(1 2 3 4)))
(format t "~A~%" (cdr '(1 2 3 4)))
(format t "~A~%" (car (cdr (cdr '(1 2 3 4)))))
(format t "~A~%" (third '(1 2 3 4)))
```

2.5 05

```
(format t "~A~%" (listp '(1 2 3 4)))
(format t "~A~%" (null nil))
(format t "~A~%" (not nil))
(format t "~A~%" (if (listp '(a b c))
    (+ 1 2)
    (+ 5 6)))
```

2.6 06

```
(defun our-third (x)
  (car (cdr (cdr x))))

(format t "~A~%" (our-third '(a b c d)))
```

2.7 07

2.8 09

```
(format t "~A plus ~A equals ~A. ~%" 2 3 (+ 2 3))
(defun askem (string)
   (format t "~A~%" string)
   (read))
(let ((age (askem "How old are you?")))
   (format t "I'm ~A year old.~%" age))
```