LISP ASQ

Part 2

Define a function to calculate distance from velocity (argument vel) and time (argument time).

(DEFUN DIST _____)

(vel time) (* vel time)

Fill in the missing part _____ to define a function returning smaller of two numbers.

(DEFUN SMALLER (a b) (COND _____ (T b)))

((< a b) a)

DVE-CISLA should evaluate to T **iff** (if and only if) its argument is a list with two numbers. **Find a counterexample**.

```
(DEFUN DVE-CISLA (zoz)
        (AND (NUMBERP (FIRST zoz))
             (NUMBERP (FIRST (REST zoz))) ) )
```

(1 2 3)

DVE-CISLA should evaluate to T **iff** (if and only if) its argument is a list with two numbers. **Fix the function**.

```
(DEFUN DVE-CISLA (zoz)
        (AND (NUMBERP (FIRST zoz))
             (NUMBERP (FIRST (REST zoz))) _________ ) )

(NULL (REST (REST zoz)))
```

Define a function which returns the same list as argument except the first and second elements, which are reordered

))

(CONS (FIRST zoz)

(CONS (FIRST (REST zoz))

(REST (REST zoz))

(DEFUN VYMEN (zoz)

Define a function which returns a list with second and third element of a list. (write a code)

(DEFUN DRUHY-TRETI (zoz))

Tu sa dlho caka na odpoved.

Select everything that evaluates to T:

- (= 5.0 5)
- (< 1 2 3 (+ 2 2))
- (EQ 5.0 5)
- (EQUAL 5.0 5)

Select all expressions that evaluate to T

- (EQ 'A 'A)
- (EQ '(A) '(A))
- (EQUAL 'A 'A)
- (EQUAL '(A B) '(A B))

Evaluate the following expression:

(EVAL (CONS '+ '(2 3)))

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