

Programming Languages

CLISP Assignment

Due: at 11:59 pm Wednesday December 2, 2015

Instructions:

- All your answers must be in a single text file named **yourFAUID.lisp**
- Include your name, your email address at the beginning of the assignment.
- All work must be on your own.

Answer the Flowing:

1. Implement a recursive function called `FILTER-OUT-THE` in Common Lisp. `FILTER-OUT-THE` takes a list of symbols and returns a list from which all instance of the symbols `THE` (case insensitive) have been removed. The prototype of `FILTER-OUT-THE` is:

```
(defun filter-out-the (list)
```

```
  Your code goes here )
```

Sample Run: `(filter-out-the '(There are the boy and THE girl and The Rose))`

Return: `(THERE ARE BOY AND GIRL AND ROSE)`

Note:

1. You cannot use predefined function to do the elimination. You must implement it yourself.
2. The symbol “the” is case insensitive, which means you should eliminate every instance of “the” in all forms, regardless the combination of lower-case and upper-case.
3. The allowed CLISP constructs are: `COND`, `EQUAL` (or `EQUALP`), `CONS`, `CAR` and `CDR`, and some basic primitive building blocks of CLISP