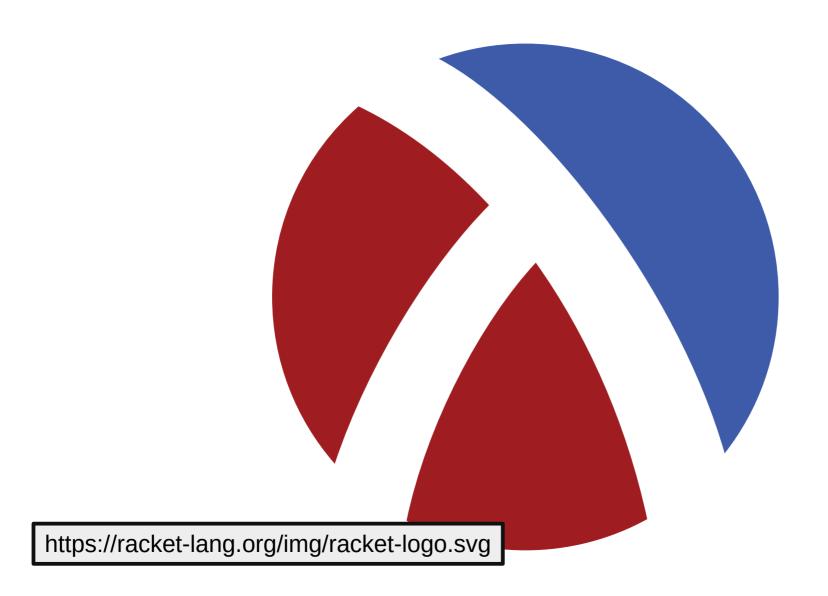
Open edX: A FLOSS Case Study

Paul "Worthless" Nijjar 2021-10-04 KWLUG





1. [5% Correctness]

For this question you will be solving several different problems.

(a) Write the function replace-word that consumes two strings and a list of strings, and produces a new list where all occurrences of the first string have been replaced by the second string.

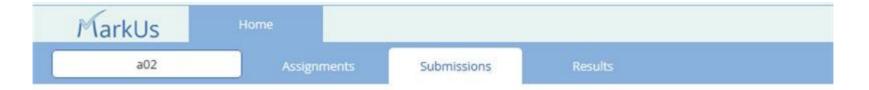
Example:

(b) Write the Racket function add that consumes two natural numbers and produces their sum (just like the + function). You may not use the + function (or the - function). Instead use add1, sub1, and recursion on natural numbers.

Example:

```
(check-expect (add 2 3) 5)
```

(c) Write the Racket function mult that consumes two natural numbers and produces their product (just like the * function). You may not use the * function (or the +, -, or / function). Instead use add1, sub1, and recursion on natural numbers. (You can also use add from the previous part of this question as a helper function, since it follows the



a02: File Manager

Server Time: Tuesday, September 28, 2021, 2:43 PM

You still need to submit 1 required file(s) for this assignment:

• a02q03.rkt

Add or Replace Files

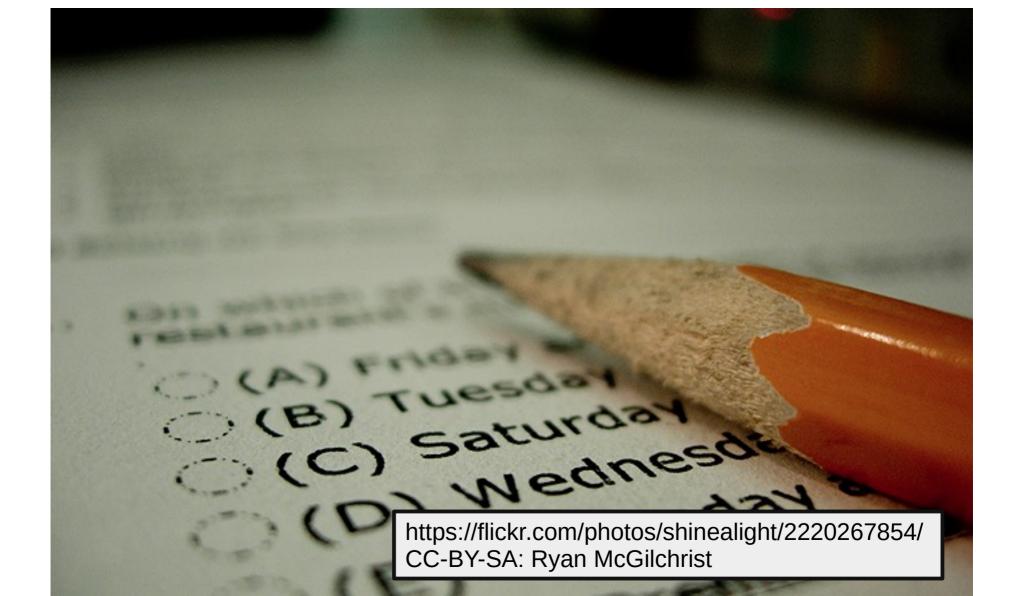
Delete

Search files

FILENAME	LAST REVISED	REVISED BY
a02q02a.rkt	2021-09-28, 2:29:06 p.m.	jdehal-student
a02q02b.rkt	2021-09-28, 2:29:06 p.m.	jdehal-student
FILENAME	LAST REVISED	REVISED BY

Run Basic Tests

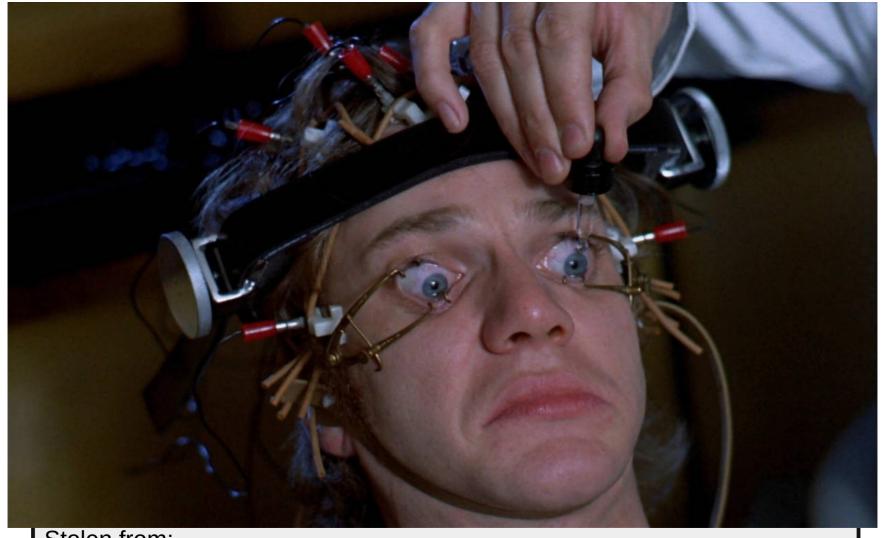






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