Man Tik Li CS 360 – 002 Krzysztof Nowak July 14, 2020

Lab 2

Serial Number: C02NLN90G3QJ

OS: macOS Catalina

Hardware UUID: 793DBFBA-8B38-5104-9E39-7BBF399D3196 Tested and implemented in DrRacket (version 7.7) and Tux.

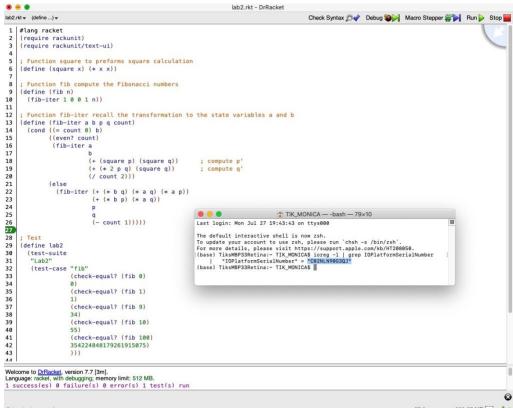
1.

i. The function force takes L as a promise, the promise is forced to obtain a value. If the promise has not been forced before, then the result is recorded in the promise so that future forces on the promise produce the same value. When run the (take 5 L), the L is forced to obtain 1-5 value and recorded it in the promise. If run (take 7 L) after (take 5 L) because 1-5 value already recorded. Therefore, it only prints 6 and 7.

```
[m13546@tux4:~/CS360/lab_2_code$ scheme
MIT/GNU Scheme running under GNU/Linux
Type '^C' (control-C) followed by 'H' to obtain information about interrupts.
Copyright (C) 2019 Massachusetts Institute of Technology
This is free software; see the source for copying conditions. There is NO warranty; not even for
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
Image saved on Thursday September 5, 2019 at 11:51:46 AM
  Release 10.1.10 || Microcode 15.3 || Runtime 15.7 || SF 4.41 || LIAR/x86-64 4.118
[1 ]=> (load "delayedmap.scm")
;Loading "delayedmap.scm"... done
;Value: 1
[1 ]=> (take 5 L)
2
3
; Value: (1 2 3 4 5)
[1 ]=> (take 7 L)
; Value: (1 2 3 4 5 6 7)
```

ii. To verify that the height of the tree is two, there should be four leaves in the tree.

- 2. Eva and Louis have a different system version of map. The system versions of car, cdr, and apply are not the correct versions. For instance, the metacircular evaluator will not work on procedures if the apply is different from the system.
- 3. Incompleted



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