Timothy Astacio CSC 344 Programming Languages

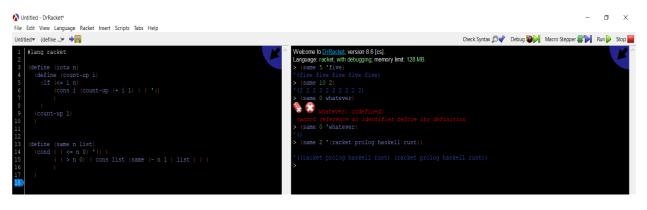
Assignment 5: RLP and HoFs

Abstract: This assignment introduces us to RLP and HoFs in Racket Programming language. In this assignment I was able to gain a basic understanding of these concepts as this project opened my eyes and helped me appreciate the power of RLP and HoFs as well as helped me improve my problem solving/programming skills.

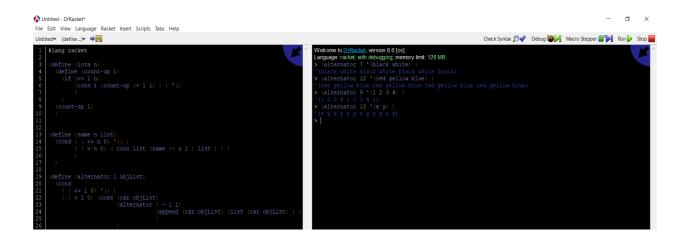
Task 1A Code and Demo:



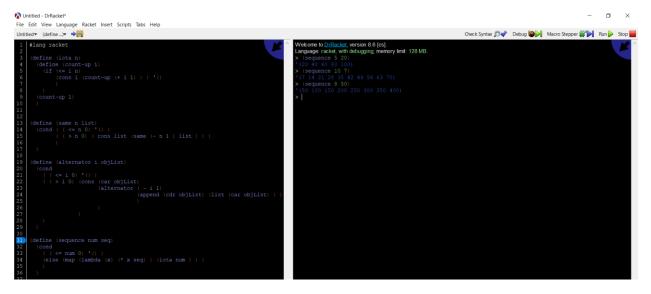
Task 1B Code and Demo:



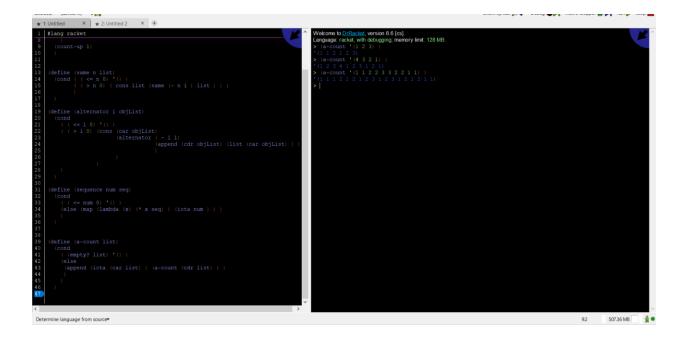
Task 1C Code and Demo:



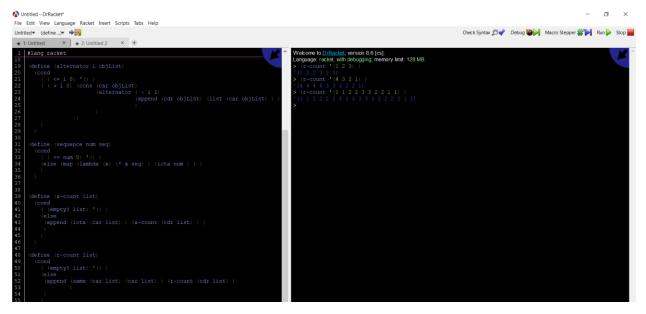
Task 1D Code and Demo:



Task 2 Counting and Task 2A Code and Demo:



Task 2B Code and Demo:



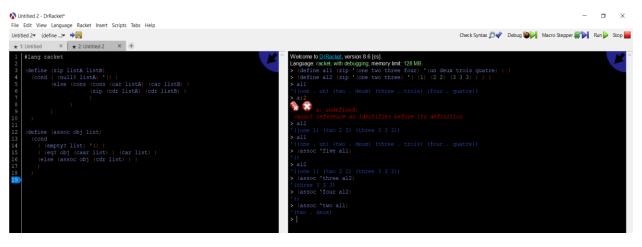
Task 2C Demo:

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	Check Syntax 🔊 🗳	Debug 🞱 🔪	Macro Stepper 🏭 🔪	Run ≽	Stop 📕
Welcome to D_fRacket, version 8.6 [cs]. Language: racket, with debugging; memory limit: 128 MB. > (a-count '(1 2 3)) '(1 1 2 1 2 3) > (r-count '(1 2 3)) '(1 2 2 3 3 3) > (a-count (a-count '(1 2 3))) '(1 1 2 1 2 1 2 3 3 3) > (a-count (r-count '(1 2 3))) '(1 1 2 1 2 1 2 3 1 2 3 1 2 3) > (a-count (r (2 2 5 3)) '(1 2 2 1 2 3 4 5 1 2 3) > (a-count '(2 2 5 3) 3) '(1 2 2 1 2 2 5 5 5 5 5 3 3 3) > (r-count (a-count '(2 2 5 3))) '(1 2 2 1 2 2 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 1 2 2 3 > (a-count (r-count '(2 2 5 3))) '(1 2 1 2 1 2 1 2 1 2 1 2 3 4 5 1 2 3		5 1 2 3 1 2	2 3 1 2 3)		

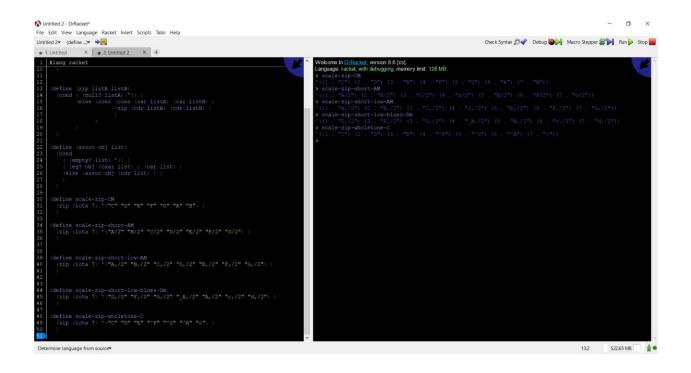
Task 3 Association List and Task 3A Code and Demo:



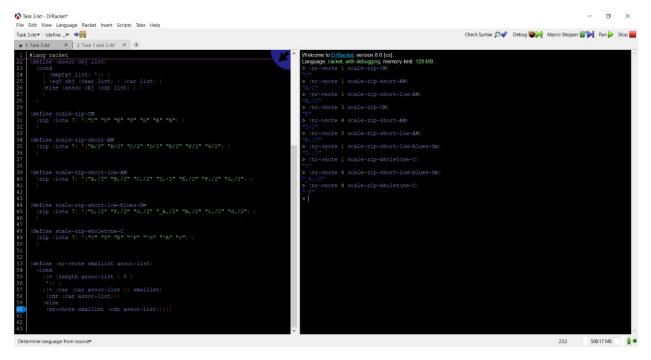
Task 3B Code and Demo:



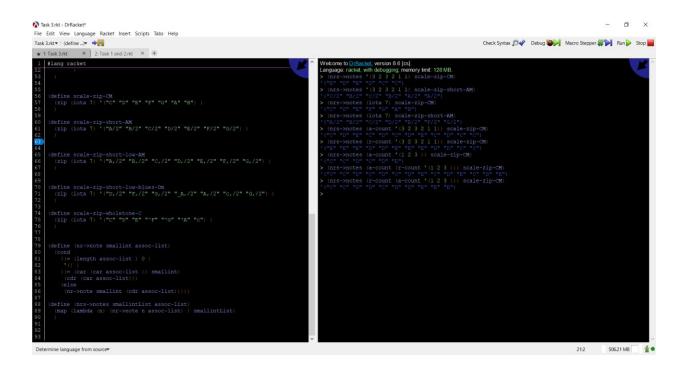
Task 3C Code and Demo:

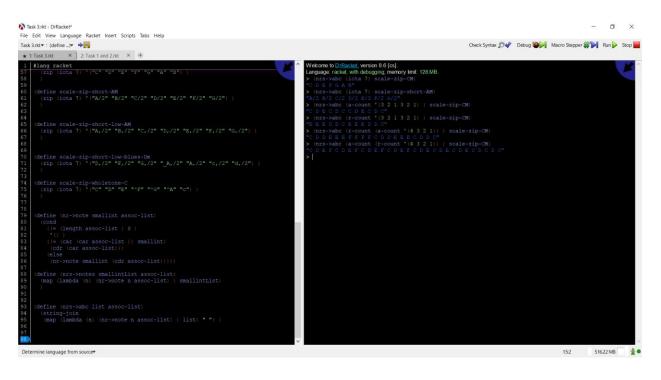


Task 4 Numbers to Notes to ABC and Task 4A Code and Demo:

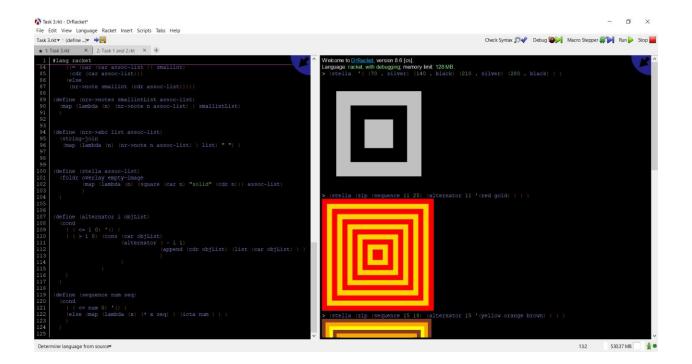


Task 4B and C Code and Demo:

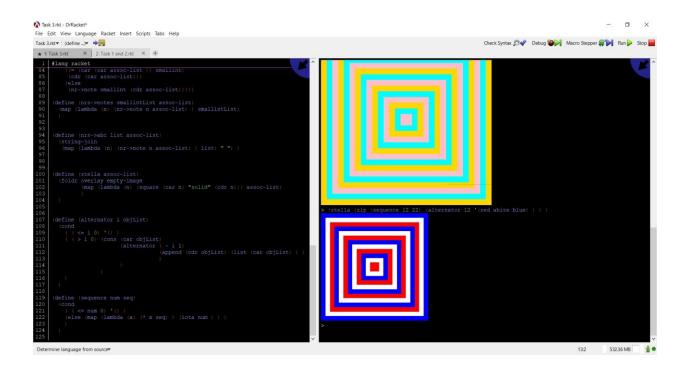




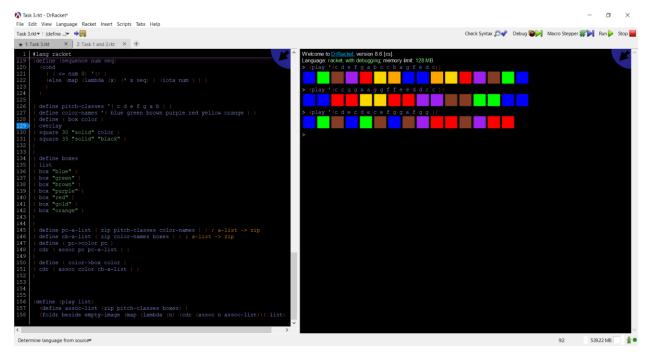
Task 5 Stella Code and Demo:



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Task 6 Chromesthic Renderings TaskA Code and Demo:



Task 7 Grapheme to Color Synesthesia, Code and Demo:

