**Programming Principles HW03**

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* **2.38**

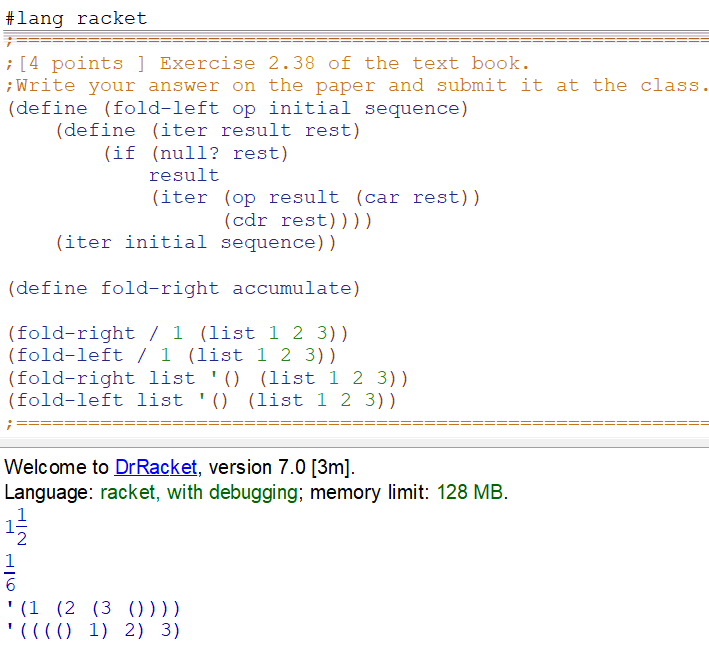


Figure 1. result of codes running.

1. (fold-right / 1 (list 1 2 3))

(/ 1 (/ 2 (/ 3 1)))

(/ 1 (/ 2 3))

(/ 1 2/3)

3/2

1. (fold-left / 1 (list 1 2 3))

(/ (/ (/ 1 1) 2) 3)

(/ (/ 1 2) 3)

(/ 1/2 3)

1/6

1. (fold-right list '() (list 1 2 3))

(list 1 (list 2 (list 3 '())))

(list 1 (list 2 (3 '())))

(list 1 (2 (3 '())))

(1 (2 (3 '())))

1. (fold-left list '() (list 1 2 3))

(list (list (list '() 1) 2) 3)

(list (list ('() 1) 2) 3)

(list (('() 1) 2) 3)

((('() 1) 2) 3)