

INPUT

(my_calc1 2 '(4 7 8 4))

(my_calc2 1 '(4 7 8 4))

(my_calc1 1 '(4 7 8 4))

(my_calc2 2 '(4 7 8 4))

(my_calc1 3 '(1 2 3 4))

(my_calc2 3 '(1 2 3 4))

(rem_second '(2))

(rem_second '(1 2))

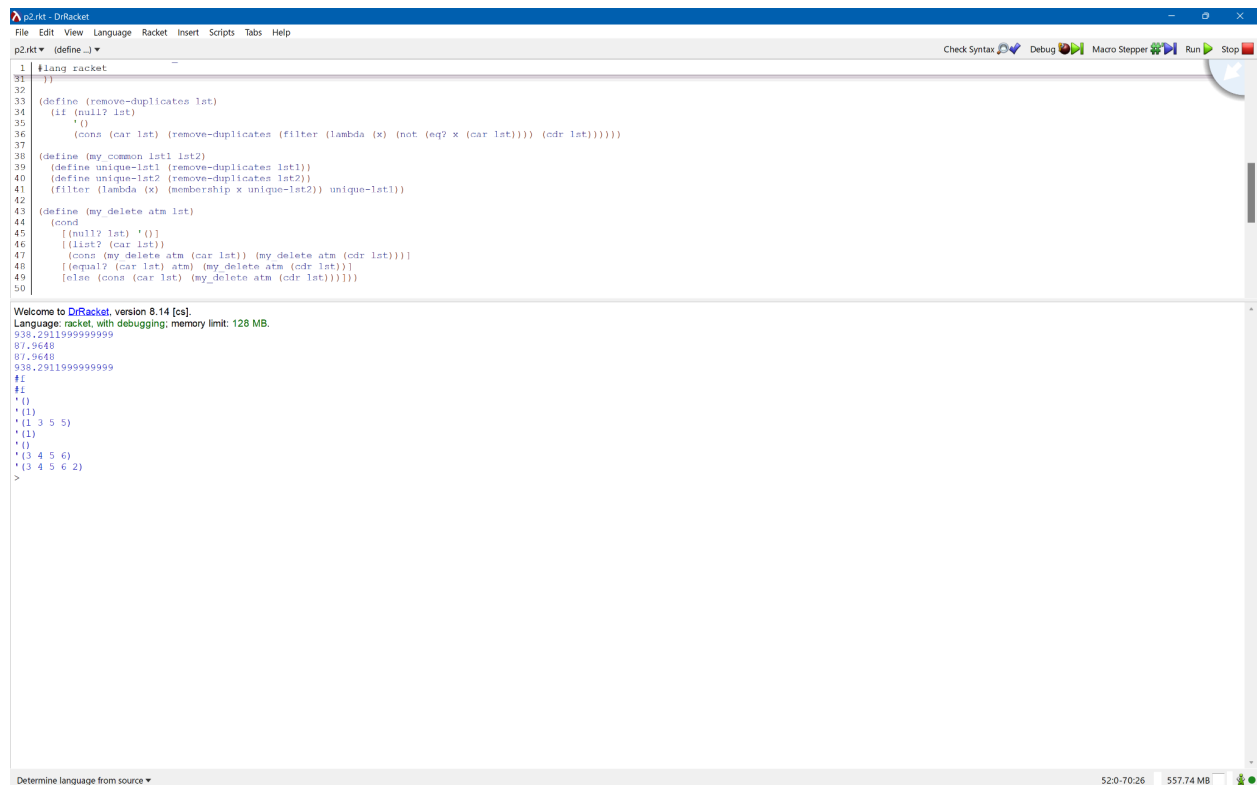
(rem_second '(1 2 3 5 5))

(my_common '(1 2 3) '(1 4 5))

(my_common '(2 2 3) '(8 4 5))

(my_delete 2 '(3 4 5 2 6 2))

(my_delete 1 '(3 4 5 6 2))



The screenshot shows the DrRacket IDE interface. The top menu bar includes File, Edit, View, Language, Racket, Insert, Scripts, Tabs, and Help. The toolbar contains icons for Check Syntax, Debug, Macro Stepper, Run, and Stop. The main editor window displays a Racket script with the following code:

```
1 #lang racket
31 )
32
33 (define (remove-duplicates lst)
34   (if (null? lst)
35       '()
36       (cons (car lst) (remove-duplicates (filter (lambda (x) (not (eq? x (car lst)))) (cdr lst))))))
37
38 (define (my_common lst1 lst2)
39   (define unique-lst1 (remove-duplicates lst1))
40   (define unique-lst2 (remove-duplicates lst2))
41   (filter (lambda (x) (membership x unique-lst2)) unique-lst1))
42
43 (define (my_delete atm lst)
44   (cond
45     [(null? lst) '()]
46     [(list2? (car lst))
47      (cons (my_delete atm (car lst)) (my_delete atm (cdr lst)))]
48     [(equal? (car lst) atm) (my_delete atm (cdr lst))]
49     [else (cons (car lst) (my_delete atm (cdr lst)))]))
50
```

The bottom output window shows the following text:

```
Welcome to DrRacket, version 8.14 [cs].
Language: racket, with debugging, memory limit: 128 MB.
938.2911999999999
87.9648
97.9648
938.2911999999999
#i
#f
'()
'(1)
'(1 3 5 5)
'(1)
'()
'(3 4 5 6)
'(3 4 5 6 2)
>
```

The status bar at the bottom indicates "Determine language from source" and shows memory usage: 52.0-70.26 MB and 557.74 MB.

INPUT

```
(my_calc1 1 '(1 2 3 4))
```

```
(my_calc2 2 '(1 2 3 4))
```

```
(my_calc1 1 '(4 7 8 4))
```

```
(my_calc2 2 '(4 7 8 4))
```

```
(my_calc1 3 '(1 2 3 4))
```

```
(my_calc2 3 '(1 2 3 4))
```

```
(rem_second '(2))
```

```
(rem_second '(1 2))
```

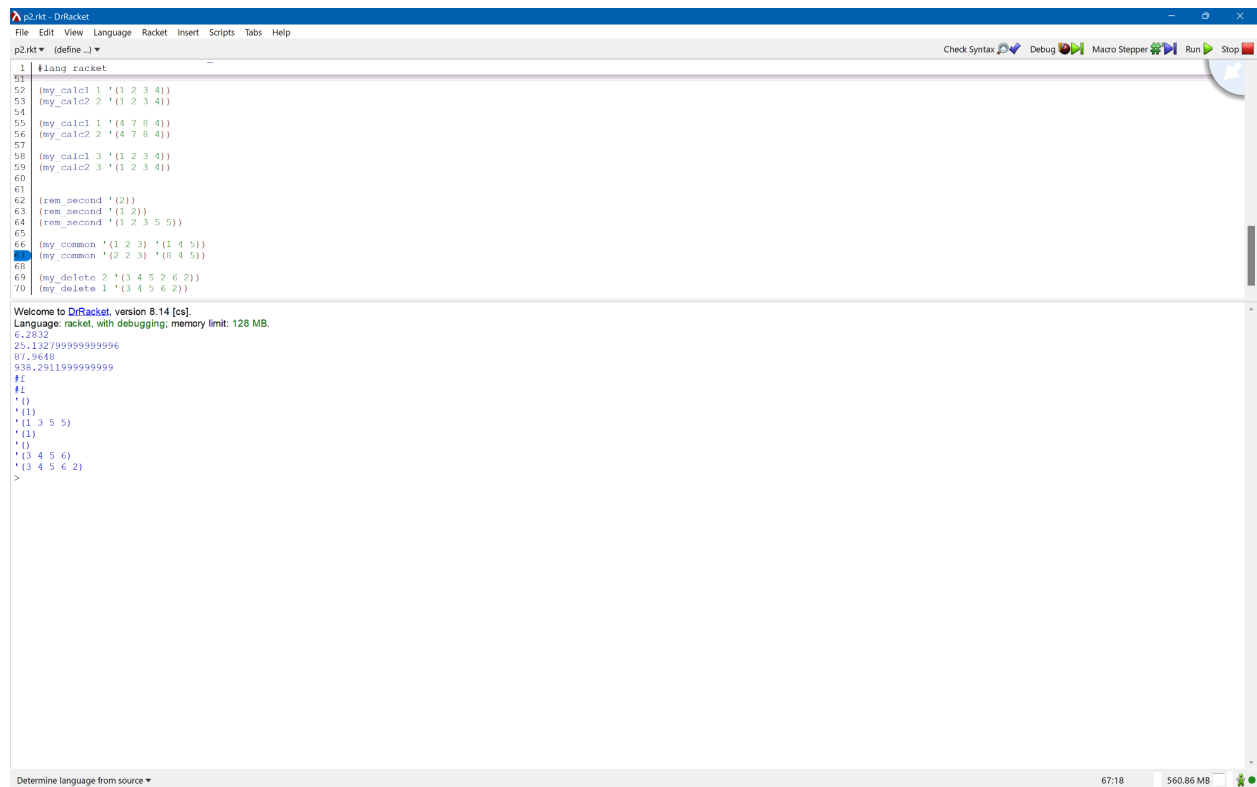
```
(rem_second '(1 2 3 5 5))
```

```
(my_common '(1 2 3) '(1 4 5))
```

```
(my_common '(2 2 3) '(8 4 5))
```

```
(my_delete 2 '(3 4 5 2 6 2))
```

```
(my_delete 1 '(3 4 5 6 2))
```



The screenshot shows the DrRacket IDE interface. The top menu bar includes File, Edit, View, Language, Racket, Insert, Scripts, Tabs, and Help. The toolbar contains icons for Check Syntax, Debug, Macro Stepper, Run, and Stop. The main editor window displays a Racket script with the following code:

```
1 #lang racket
51
52 (my_calc1 1 '(1 2 3 4))
53 (my_calc2 2 '(1 2 3 4))
54
55 (my_calc1 1 '(4 7 8 4))
56 (my_calc2 2 '(4 7 8 4))
57
58 (my_calc1 3 '(1 2 3 4))
59 (my_calc2 3 '(1 2 3 4))
60
61
62 (rem_second '(2))
63 (rem_second '(1 2))
64 (rem_second '(1 2 3 5 5))
65
66 (my_common '(1 2 3) '(1 4 5))
67 (my_common '(2 2 3) '(8 4 5))
68
69 (my_delete 2 '(3 4 5 2 6 2))
70 (my_delete 1 '(3 4 5 6 2))
```

The bottom output window shows the following text:

```
Welcome to DrRacket, version 8.14 [cs].
Language: racket, with debugging, memory limit: 128 MB.
6.2832
25.132799999999996
97.9640
938.2911999999999
#1
#2
* ()
* (1)
* (1 3 5 5)
* (1)
* ()
* (3 4 5 6)
* (3 4 5 6 2)
>
```

The status bar at the bottom indicates the language as 'Determine language from source', the time as 67:18, and the memory usage as 560.86 MB.