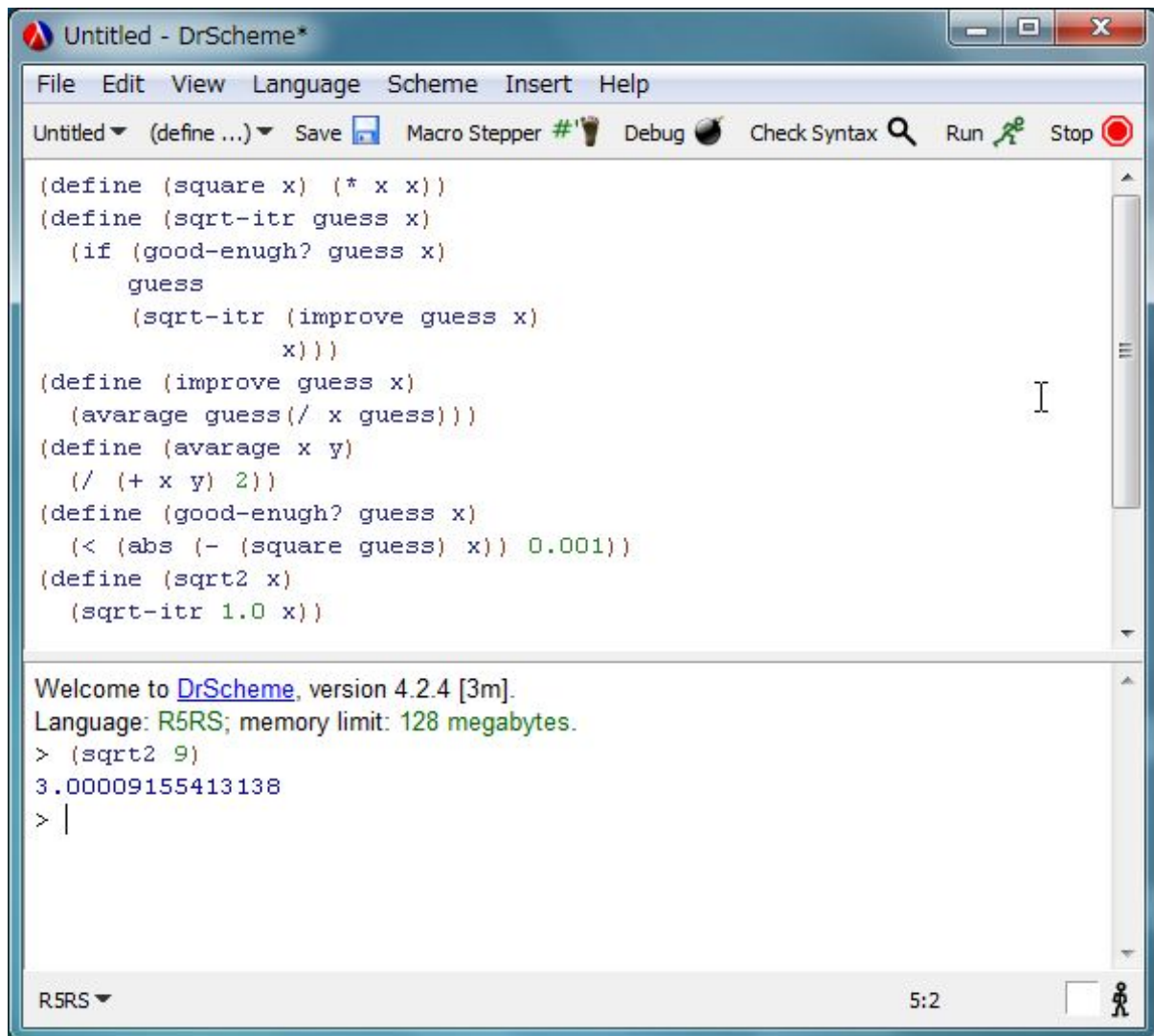


# DrScheme

[Scheme]

定義を上のパインに行い、Run



The screenshot shows the DrScheme IDE interface. The main editor window contains Scheme code for calculating square roots using Newton's method. Below the editor is a REPL window showing the execution of the `(sqrt2 9)` function, which returns the value `3.00009155413138`. The status bar at the bottom indicates the language is R5RS and the current cursor position is 5:2.

```
Untitled - DrScheme*
File Edit View Language Scheme Insert Help
Untitled (define ...) Save Macro Stepper # Debug Check Syntax Run Stop

(define (square x) (* x x))
(define (sqrt-itr guess x)
  (if (good-enough? guess x)
      guess
      (sqrt-itr (improve guess x)
                x)))
(define (improve guess x)
  (avarage guess(/ x guess)))
(define (avarage x y)
  (/ (+ x y) 2))
(define (good-enough? guess x)
  (< (abs (- (square guess) x)) 0.001))
(define (sqrt2 x)
  (sqrt-itr 1.0 x))

Welcome to DrScheme, version 4.2.4 [3m].
Language: R5RS; memory limit: 128 megabytes.
> (sqrt2 9)
3.00009155413138
> |

R5RS 5:2
```