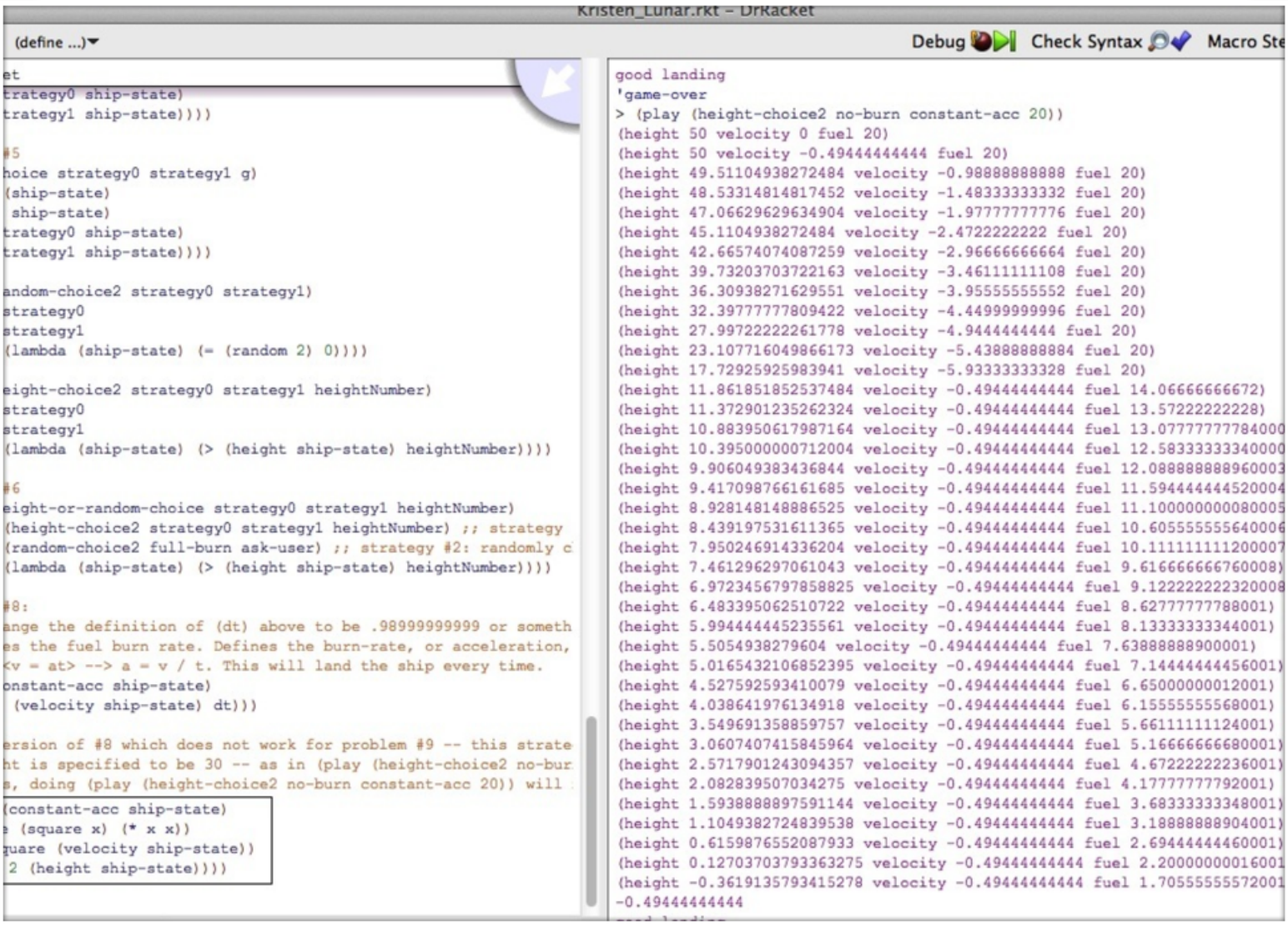
Kristen_Lunar.rkt - DrRacket
(define ...)
Debug
Check Syntax
Macro Ste
et
trategy0 ship-state)
trategy1 ship-state))))
#5
hoice strategy0 strategy1 g)
(ship-state)
ship-state)
trategy0 ship-state)
trategy1 ship-state))))
andom-choice2 strategy0 strategy1)
strategy0
strategy1
(lambda (ship-state) (= (random 2) 0))))
eight-choice2 strategy0 strategy1 heightNumber)
strategy0
strategy1
(lambda (ship-state) (> (height ship-state) heightNumber))))
#6
eight-or-random-choice strategy0 strategy1 heightNumber)
(height-choice2 strategy0 strategy1 heightNumber) ;; strategy
(random-choice2 full-burn ask-user) ;; strategy #2: randomly c
(lambda (ship-state) (> (height ship-state) heightNumber))))
#8:
ange the definition of (dt) above to be .98999999999 or someth
es the fuel burn rate. Defines the burn-rate, or acceleration,
<v = at> --> a = v / t. This will land the ship every time.
onstant-acc ship-state)
(velocity ship-state) dt)))
ersion of #8 which does not work for problem #9 -- this strate
ht is specified to be 30 -- as in (play (height-choice2 no-bur
s, doing (play (height-choice2 no-burn constant-acc 20)) will
(constant-acc ship-state)
(square x) (* x x))
quare (velocity ship-state))
2 (height ship-state))))
good landing
'game-over
> (play (height-choice2 no-burn constant-acc 20))
(height 50 velocity 0 fuel 20)
(height 50 velocity -0.49444444444 fuel 20)
(height 49.51104938272484 velocity -0.98888888888 fuel 20)
(height 48.53314814817452 velocity -1.48333333332 fuel 20)
(height 47.06629629634904 velocity -1.97777777776 fuel 20)
(height 45.1104938272484 velocity -2.4722222222 fuel 20)
(height 42.66574074087259 velocity -2.96666666664 fuel 20)
(height 39.73203703722163 velocity -3.46111111108 fuel 20)
(height 36.30938271629551 velocity -3.95555555552 fuel 20)
(height 32.39777777809422 velocity -4.44999999996 fuel 20)
(height 27.99722222261778 velocity -4.9444444444 fuel 20)
(height 23.107716049866173 velocity -5.43888888884 fuel 20)
(height 17.72925925983941 velocity -5.93333333328 fuel 20)
(height 11.861851852537484 velocity -0.49444444444 fuel 14.06666666672)
(height 11.372901235262324 velocity -0.49444444444 fuel 13.57222222228)
(height 10.883950617987164 velocity -0.49444444444 fuel 13.07777777784000
(height 10.395000000712004 velocity -0.49444444444 fuel 12.58333333340000
(height 9.906049383436844 velocity -0.49444444444 fuel 12.08888888960003
(height 9.417098766161685 velocity -0.49444444444 fuel 11.594444444520004
(height 8.928148148886525 velocity -0.49444444444 fuel 11.100000000080005
(height 8.439197531611365 velocity -0.49444444444 fuel 10.605555555640006
(height 7.950246914336204 velocity -0.49444444444 fuel 10.111111111200007
(height 7.461296297061043 velocity -0.49444444444 fuel 9.616666666760008)
(height 6.9723456797858825 velocity -0.49444444444 fuel 9.122222222320008
(height 6.483395062510722 velocity -0.49444444444 fuel 8.62777777788001)
(height 5.994444445235561 velocity -0.49444444444 fuel 8.13333333344001)
(height 5.5054938279604 velocity -0.49444444444 fuel 7.63888888900001)
(height 5.0165432106852395 velocity -0.49444444444 fuel 7.14444444456001)
(height 4.527592593410079 velocity -0.49444444444 fuel 6.65000000012001)
(height 4.038641976134918 velocity -0.49444444444 fuel 6.15555555568001)
(height 3.549691358859757 velocity -0.49444444444 fuel 5.66111111124001)
(height 3.0607407415845964 velocity -0.49444444444 fuel 5.16666666680001)
(height 2.5717901243094357 velocity -0.49444444444 fuel 4.67222222236001)
(height 2.082839507034275 velocity -0.49444444444 fuel 4.17777777792001)
(height 1.5938888897591144 velocity -0.49444444444 fuel 3.68333333348001)
(height 1.1049382724839538 velocity -0.49444444444 fuel 3.18888888904001)
(height 0.6159876552087933 velocity -0.49444444444 fuel 2.69444444460001)
(height 0.12703703793363275 velocity -0.49444444444 fuel 2.20000000016001
(height -0.3619135793415278 velocity -0.49444444444 fuel 1.70555555572001
-0.49444444444