Note Title 12/17/2009

② (a) code to eval B
b = result from above eval
if (b == 0) goto Else
code to eval S_1
goto out
else: code to eval S_2
out:

(b) loop: code to eval B
b = result from above eval
if (B == 0) goto out
code to eval S
goto loop
out:

(c) code to evaluate E
e = result from above
if ($e == L_1$) goto case 1
if ($e == L_n$) goto case n
goto case d
case 1: code to eval S_1
case n: code to eval S_n
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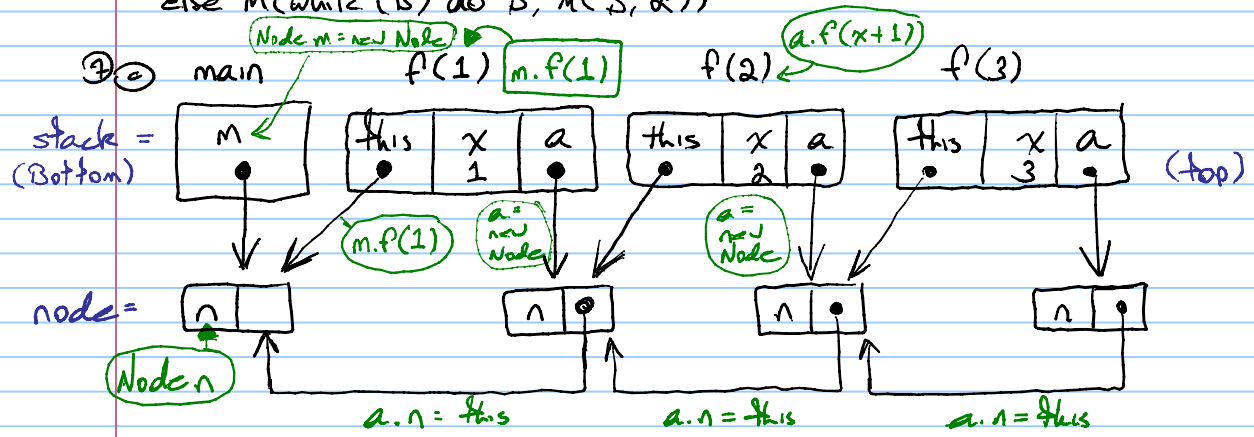
case d: code to eval S_4

(d) code to eval B_1
b_1 = result from above eval
if ($b_1 = 0$) goto else
loop: code to eval B_2
b_2 = result from above eval
if ($b_2 = 0$) goto out
code to eval S_1
goto loop
else: code to eval S_2
out:

③ (a) $M(\text{if } (B) S_1 \text{ else } S_2, \alpha) =$
if ($Eval(B, \alpha) = \perp_V$) then $\perp_S$
else if ($Eval(B, \alpha) = true$) then $M(S_1, \alpha)$
else $M(S_2, \alpha)$

(b) $M(\text{while } (B) \text{ do } S', \alpha) =$
if ($Eval(B, \alpha) = \perp_V$) then $\perp_S$
else if $Eval(B, \alpha) = false$ then α
else if ($M(S', \alpha) = \perp_S$) then $\perp_S$
else $M(\text{while } (B) \text{ do } S', M(S', \alpha))$

④ (a)



⑩ BA