

3rd case

rvalue("a[i] = 2 * a[j-k]")
y = "a[i]" z = "2 * a[j-k]"

emit { a[i] = t1 }

1st case

rvalue("2 * a[j-k]")
op = "*" y = "2" z = "a[j-k]"
t1 = tmp(); emit { t1 = 2 * t2 }; return t1

lvalue("a[i]")
y = "a" z = "i"
return a[i]

rvalue("i")
return i

rvalue("2")
return "2"

2nd case

rvalue("a[j-k]")
y = "a" z = "j-k"
t2 = tmp(); emit { t2 = a[t3] }; return t2

lvalue("a[j-k]")
y = "a" z = "j-k"
return a[t3]

t3 = j - k
t2 = a[t3]
t1 = 2 * t2
a[i] = t1

1st case

rvalue("j-k")
op = "-" y = "j" z = "k"
t3 = tmp(); emit { t3 = j - k }; return t3

rvalue("j")
return "j"

rvalue("k")
return "k"