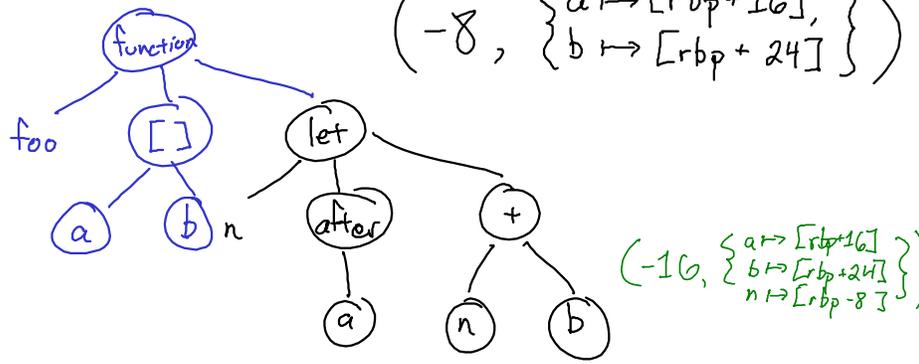


```

def foo(a, b)
  let n = after(a) in
  n + b
end

```



```

fn-foo:
  push rbp
  mov rbp, rsp
  sub rsp, 16
  mov rax, [rbp+16] ; a
  add rax, 2 ; after
  mov [rbp-8], rax ; let n
  mov rax, [rbp-8] ; n
  mov [rbp-16], rax ; store left
  mov rax, [rbp+24] ; b
  add rax, [rbp-16] ; +
  mov rsp, rbp
  pop rbp
  ret

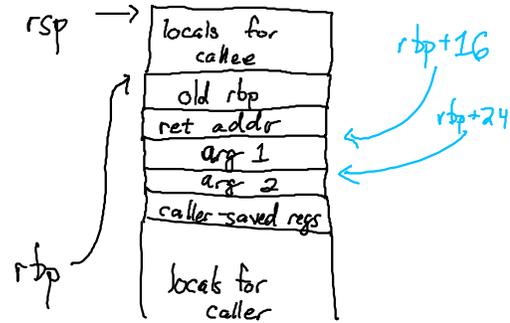
```

Step 2

Step 3

Step 4

During Step 3



```
def f(n)
  n+2
end
f(4) ⇒ 6
```

```
def f(a, a)
enda
f(5, 7) ⇒ compile error
duplicate param
```

```
def f()
  a
end
f() ⇒ compile error
unbound var
```

```
a+b+c+d ⇒ compile error
unbound vars
```

```
def f(a)
  a
end
f(2+3) ⇒ 5
```

```
def f(a)
  g(a)
end
def g(b)
  b
end
f(3) ⇒ 3
```

```
def f(a) a end
def f(b) b+1 end
f(2) ⇒ compile error
duplicate fn name
```

```
g() ⇒ compile error
undefined function
```

```
def f(a)
  a
end
f() ⇒ compile error
incorrect # of args
```