Alcance Estático y Asociación Profunda

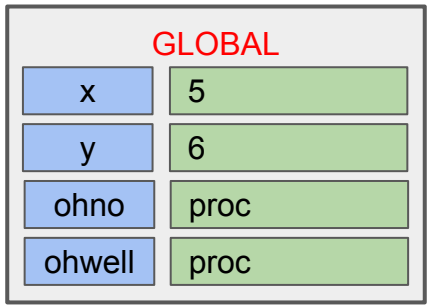
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat

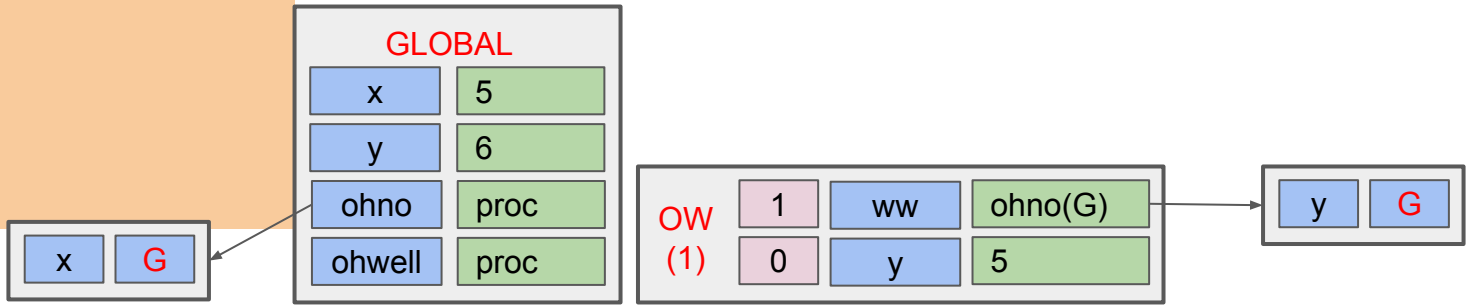
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

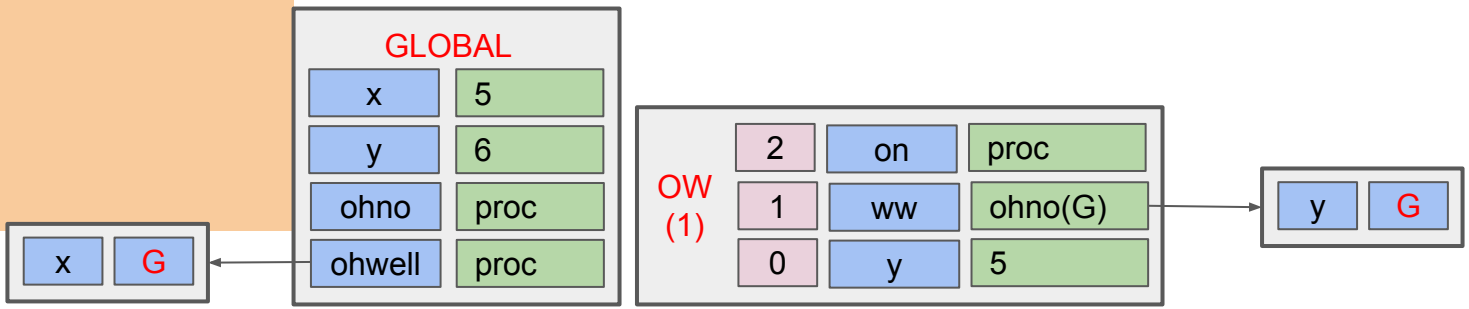
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
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               x := y * 2
          }
          ohwell(y + 10, waitwhat);
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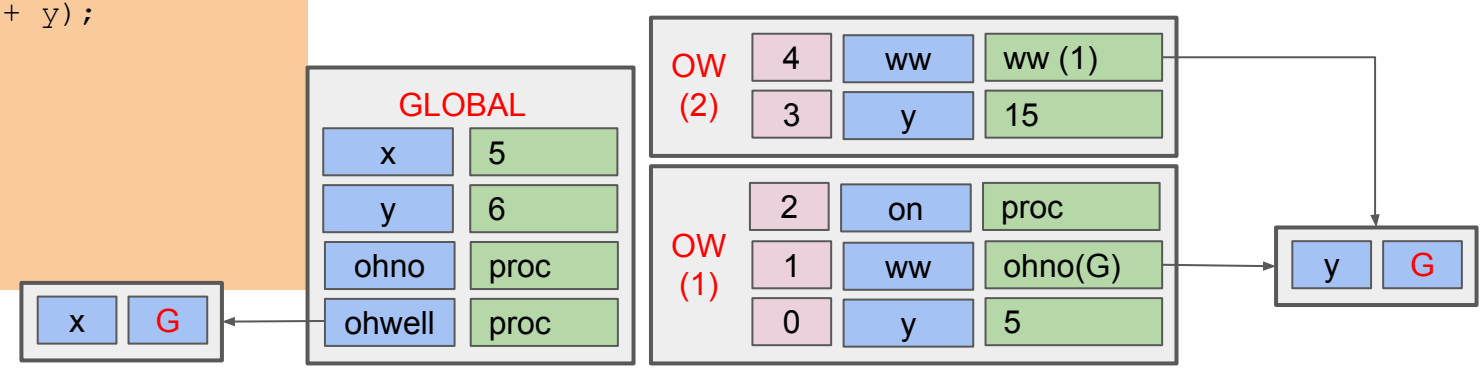
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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          proc ohno(int x) {
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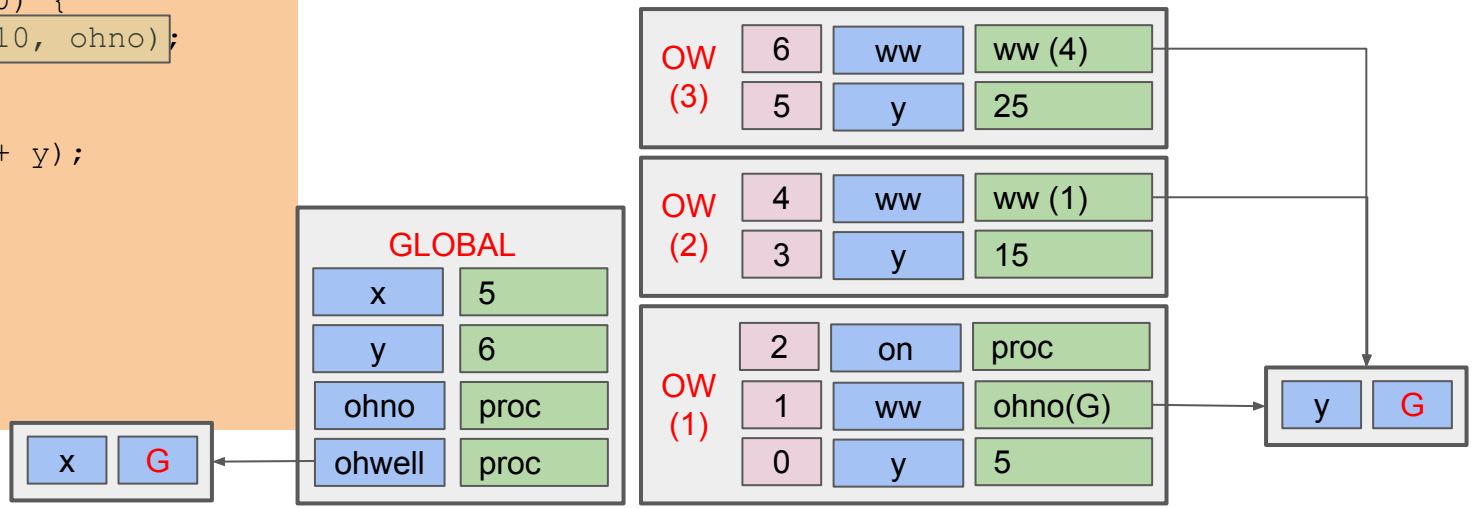
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

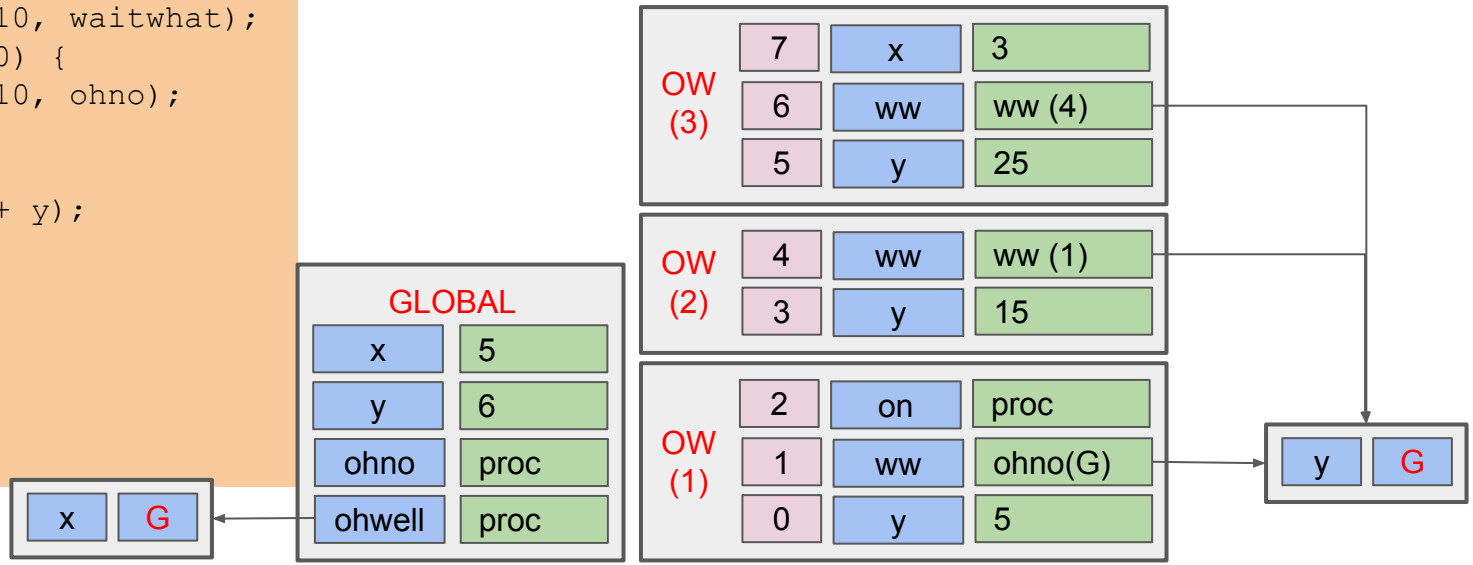
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
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          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
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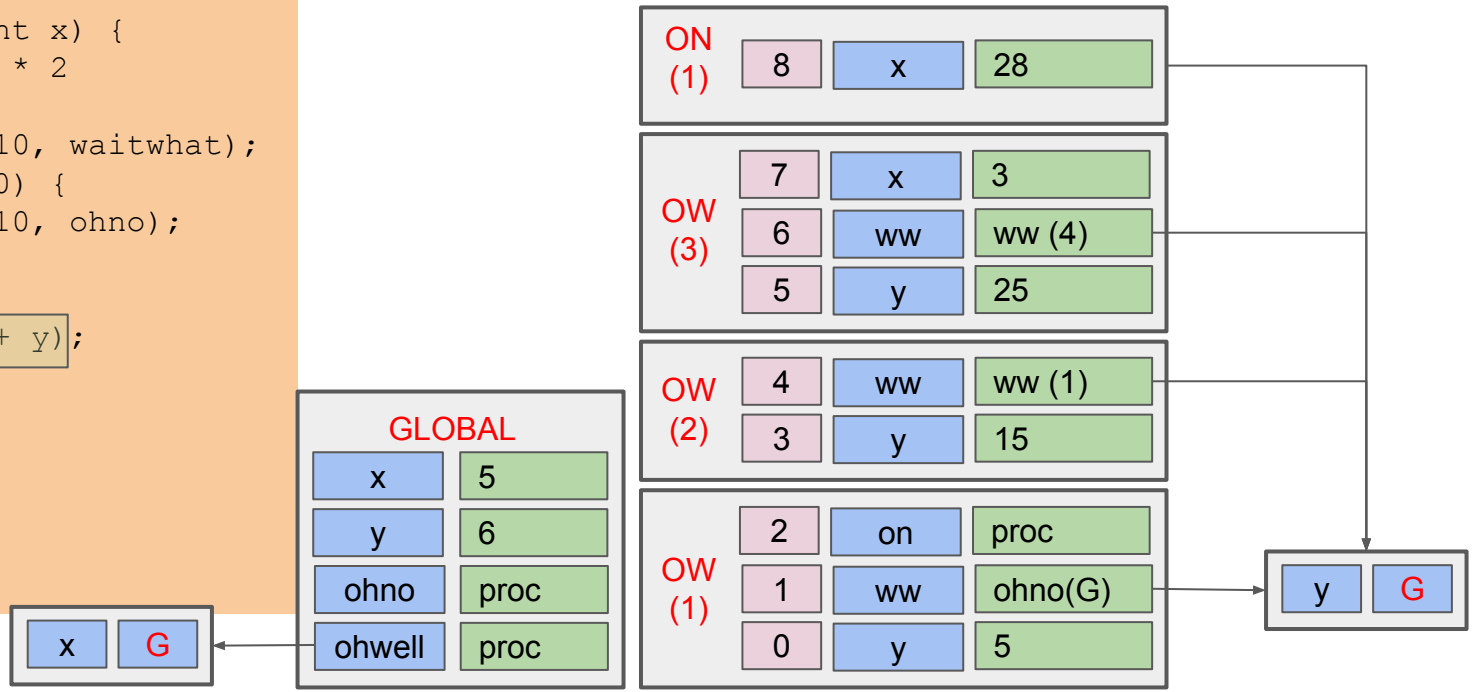
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

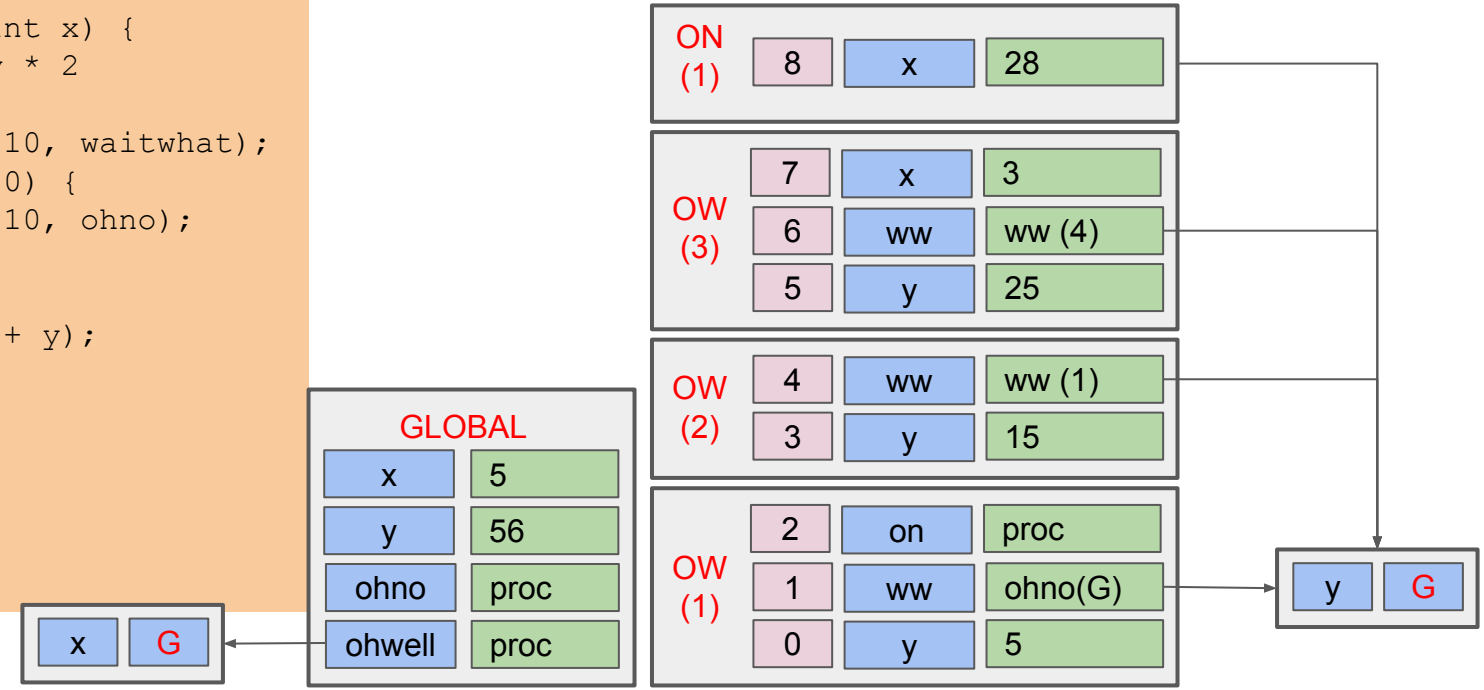
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

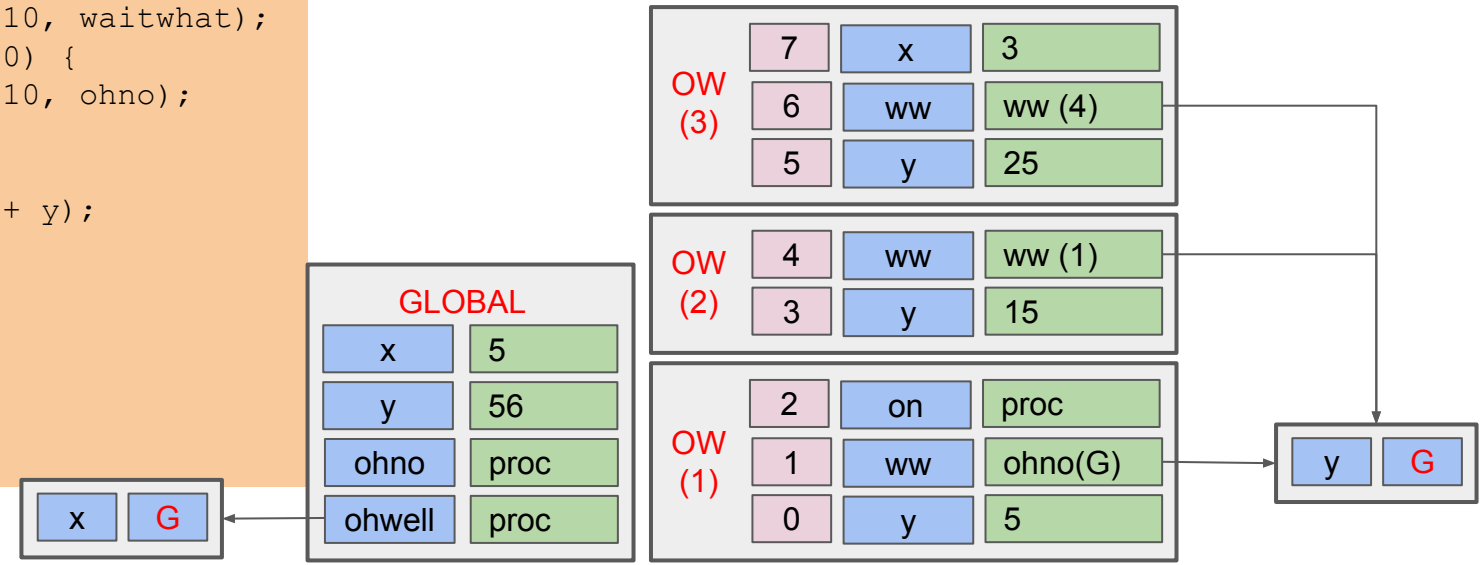
proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

```
[3, 25]
```



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

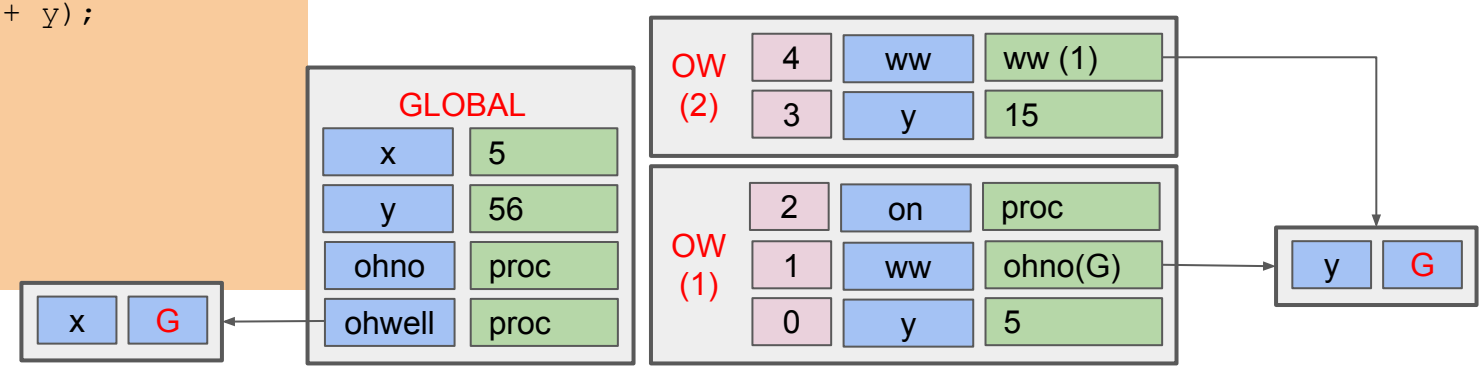
proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

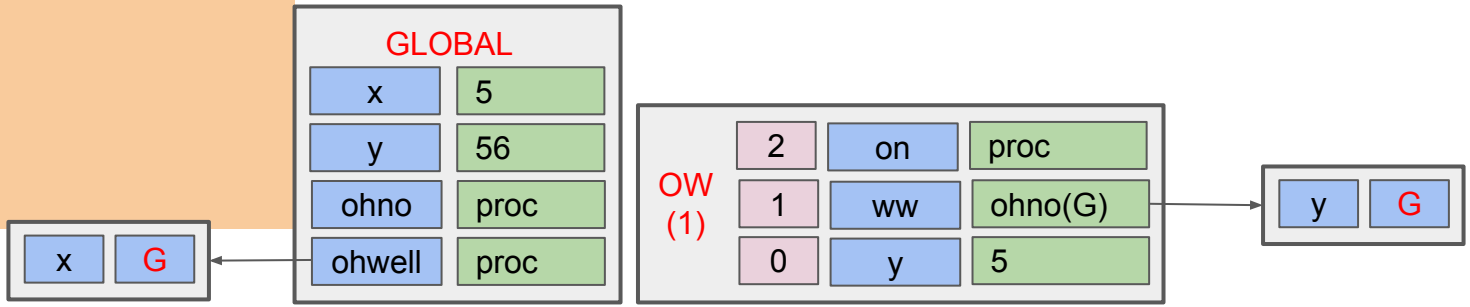
proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]

[5, 5]



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

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     y := 2 * x;
}

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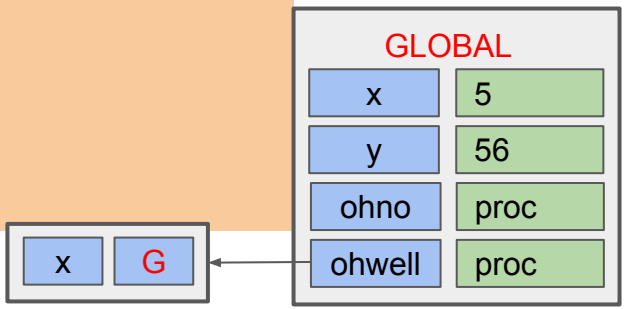
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25]	[5, 15]
[5, 5]	[5, 56]



ww = waitwhat, ow = ohwell, on = ohno

Alcance Dinámico y Asociación Profunda

```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
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          ohwell(y + 10, ohno);
     } else {
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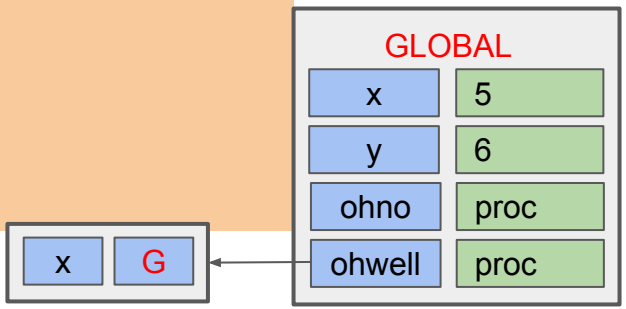
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

proc ohno(int x) {
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proc ohwell(int y, proc waitwhat) {
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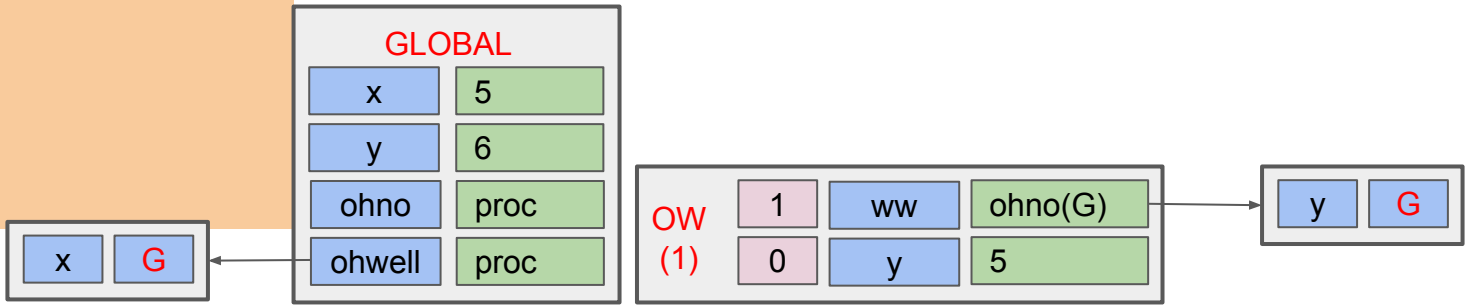
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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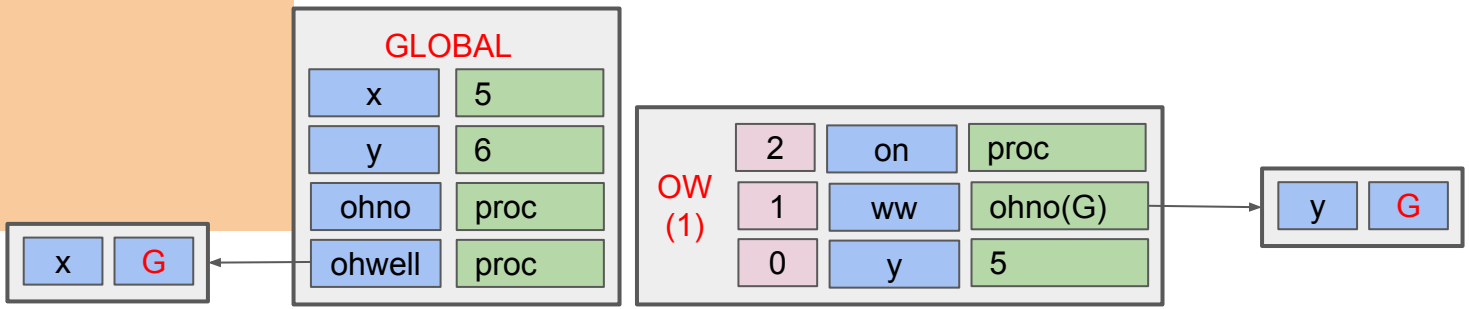
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

proc ohno(int x) {
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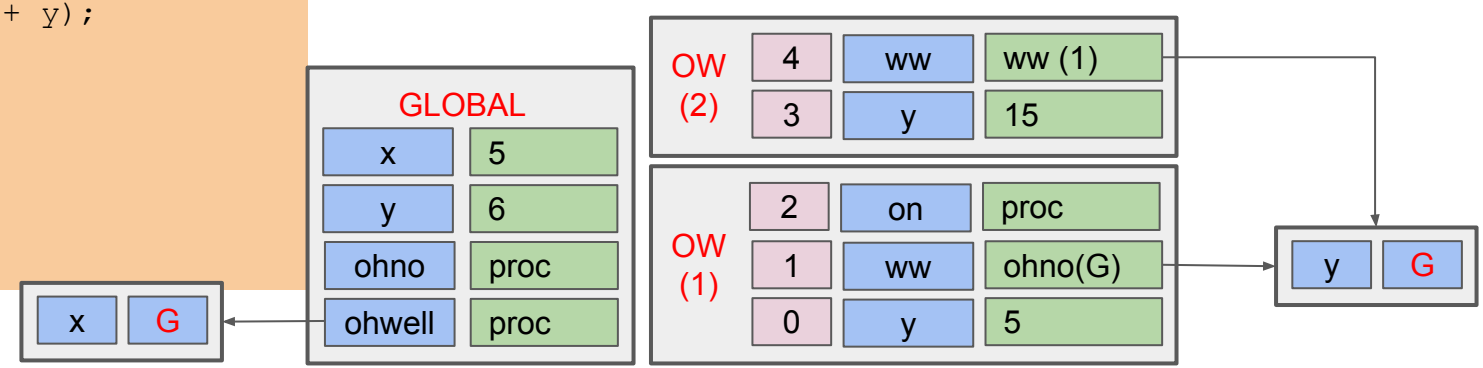
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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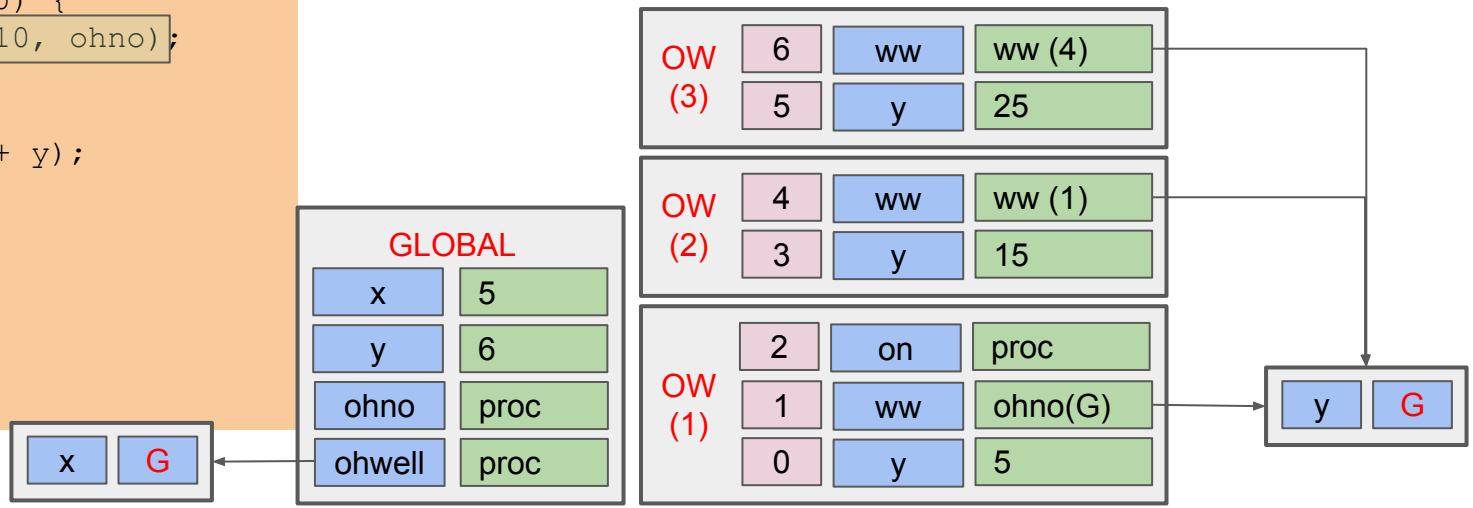
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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     }
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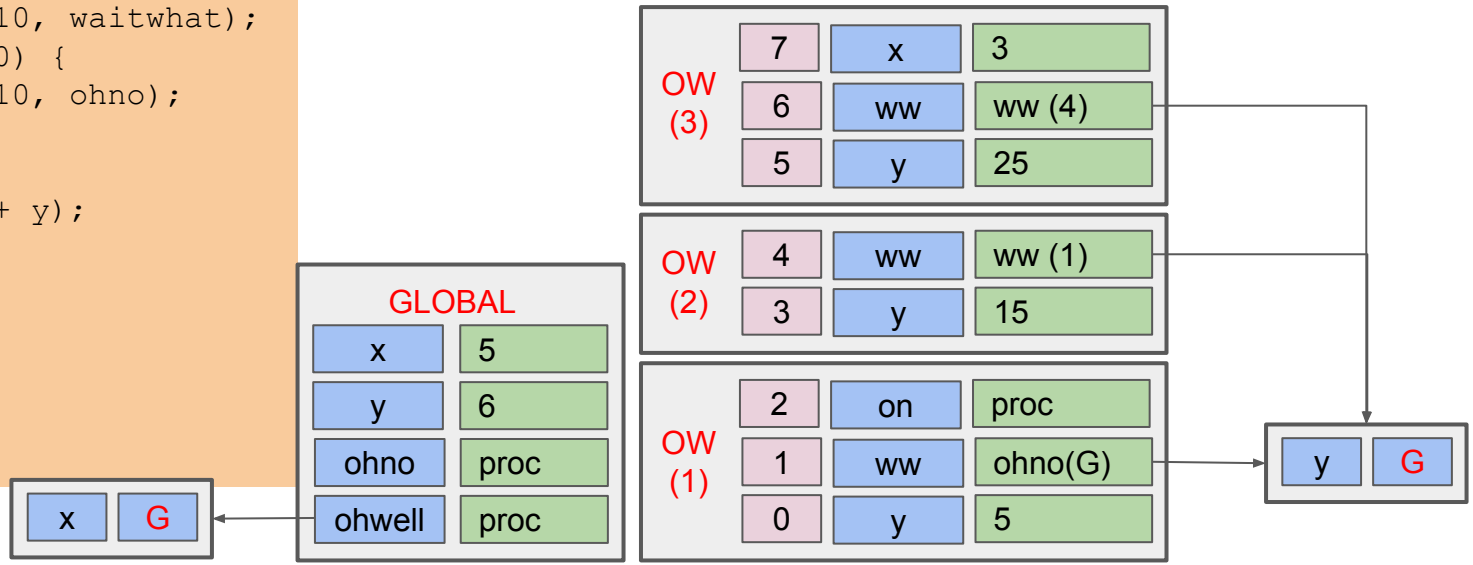
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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proc ohno(int x) {
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proc ohwell(int y, proc waitwhat) {
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}

ohwell(x, ohno);
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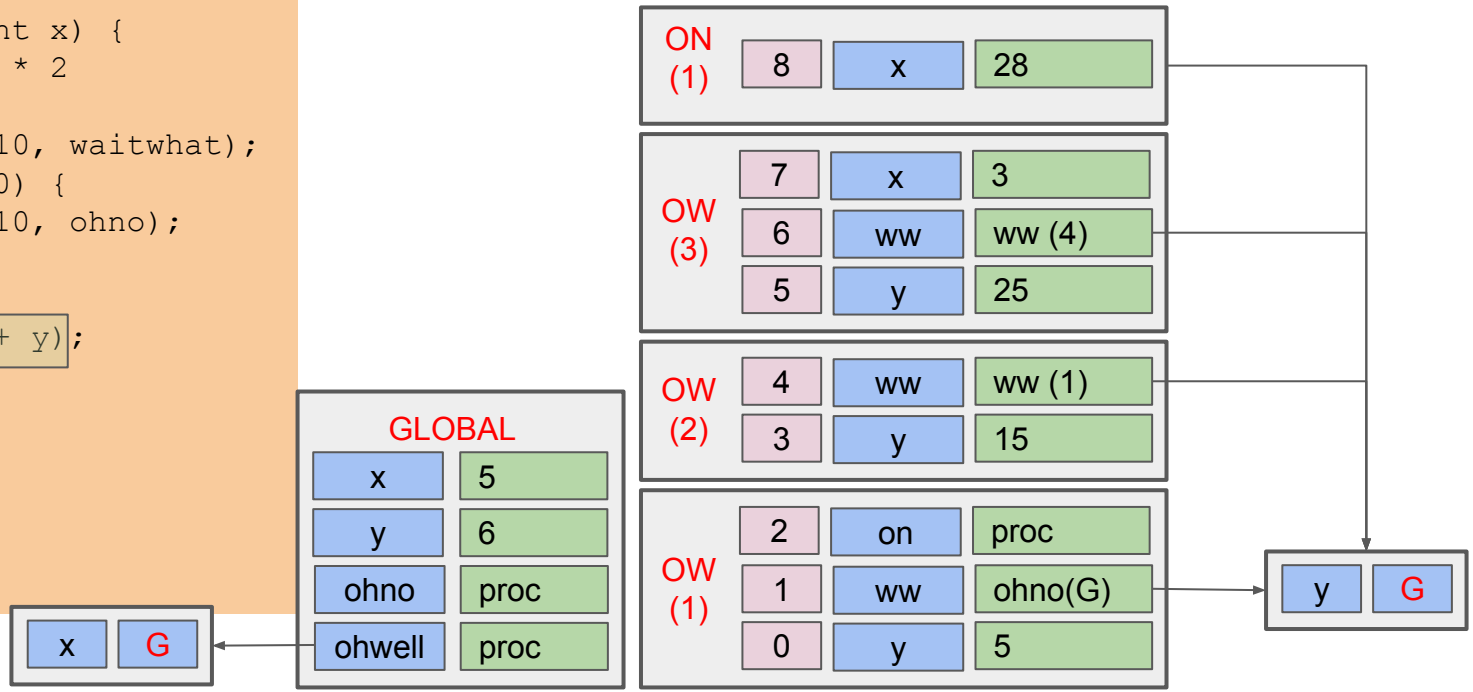
```

IMPRIME



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}

ohwell(x, ohno);
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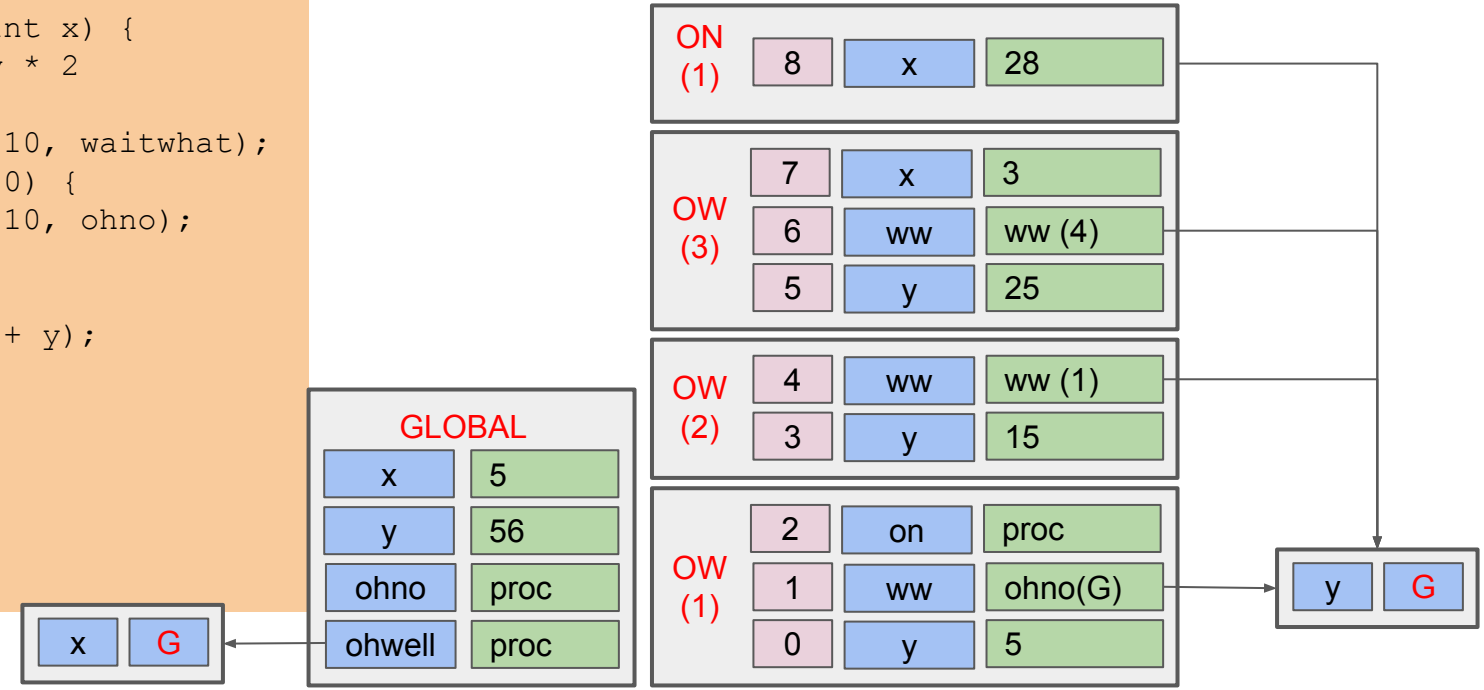
IMPRIME



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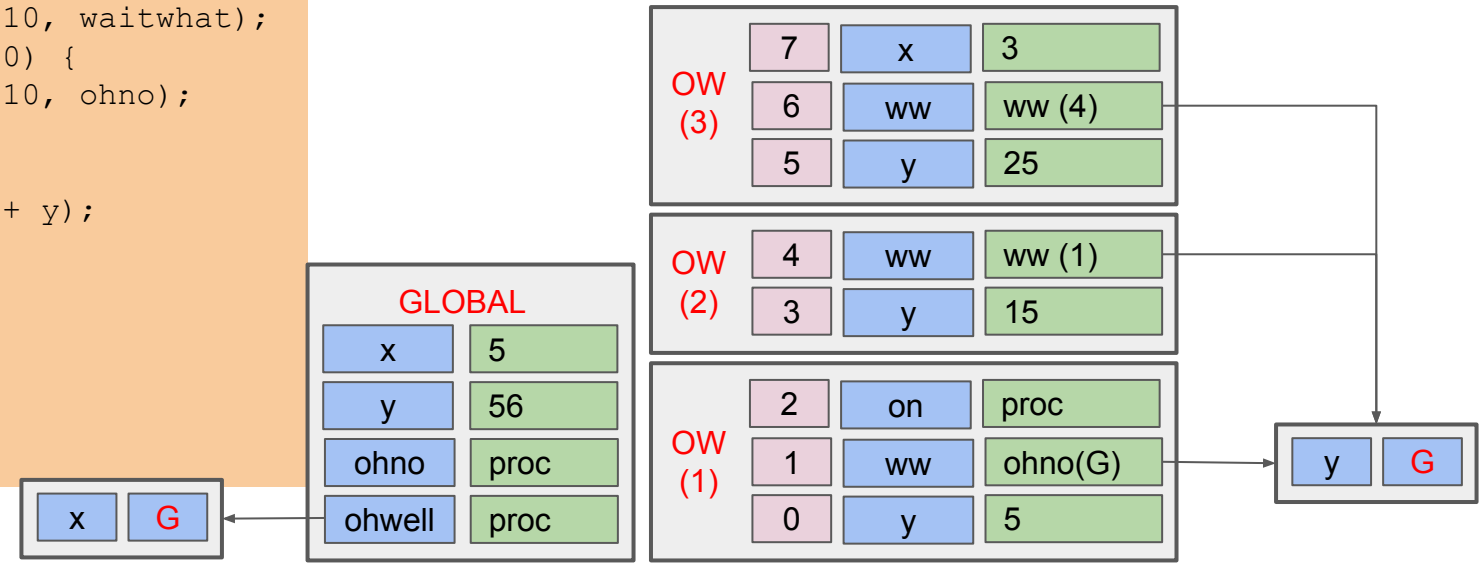
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

```
[3, 25]
```



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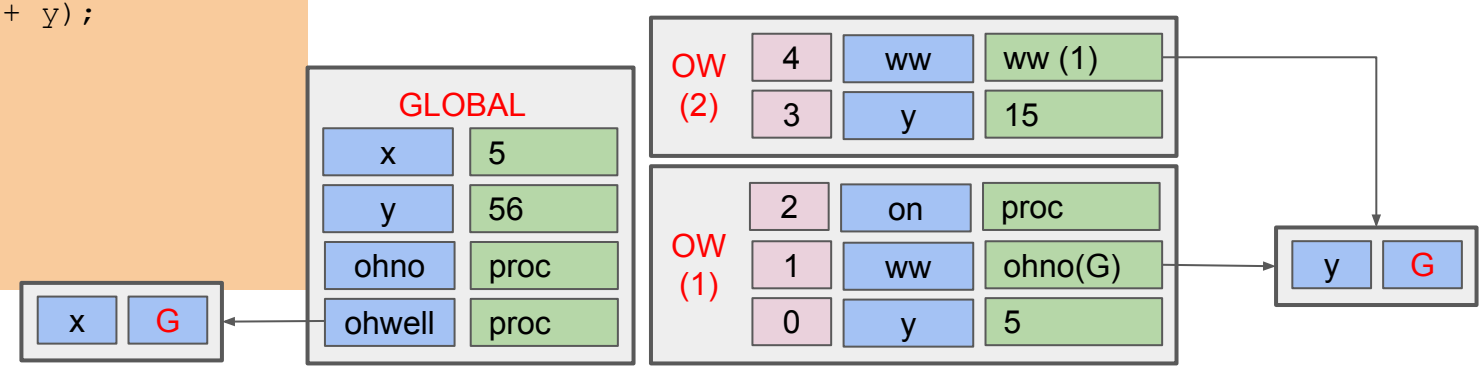
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]



ww = waitwhat, ow = ohwell, on = ohno

```
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proc ohno(int x) {
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proc ohwell(int y, proc waitwhat) {
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          ohwell(y + 10, waitwhat);
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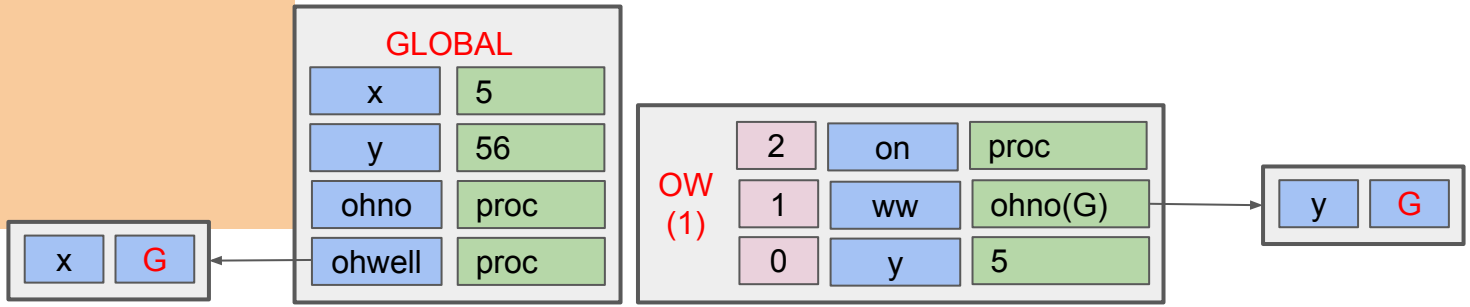
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]

[5, 5]



ww = waitwhat, ow = ohwell, on = ohno

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int x = 5, y = 6;

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proc ohwell(int y, proc waitwhat) {
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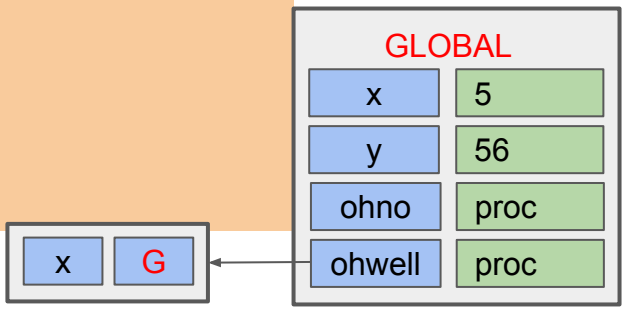
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25]	[5, 15]
[5, 5]	[5, 56]



ww = waitwhat, ow = ohwell, on = ohno

Alcance Estático y Asociación Superficial

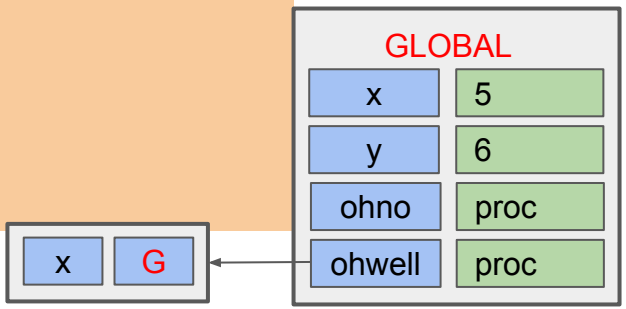
```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
}

proc ohwell(int y, proc waitwhat) {
     if (y < 10) {
          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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proc ohno(int x) {
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     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

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          waitwhat(x + y);
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     print(x, y);
}

ohwell(x, ohno);
print(x, y);
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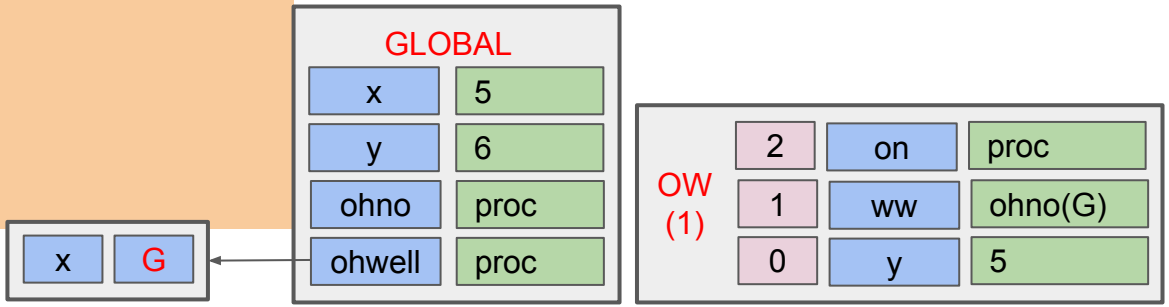
IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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proc ohno(int x) {
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          }
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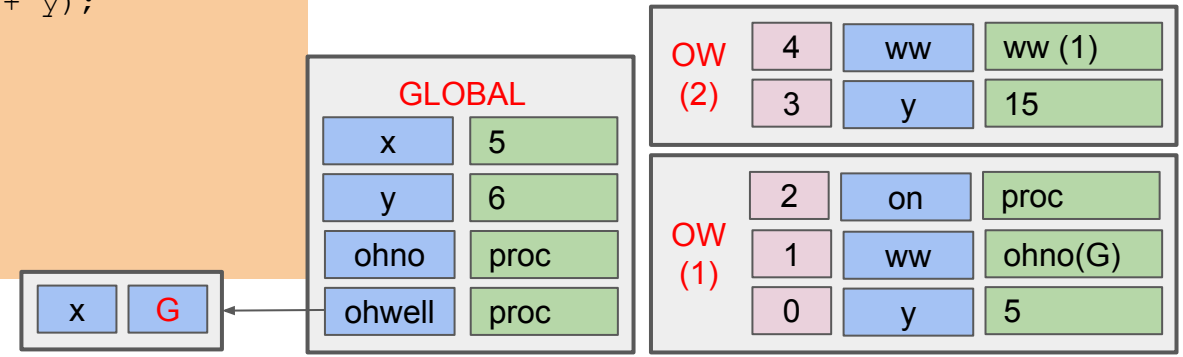
     } else if (y < 20) {
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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     } else {
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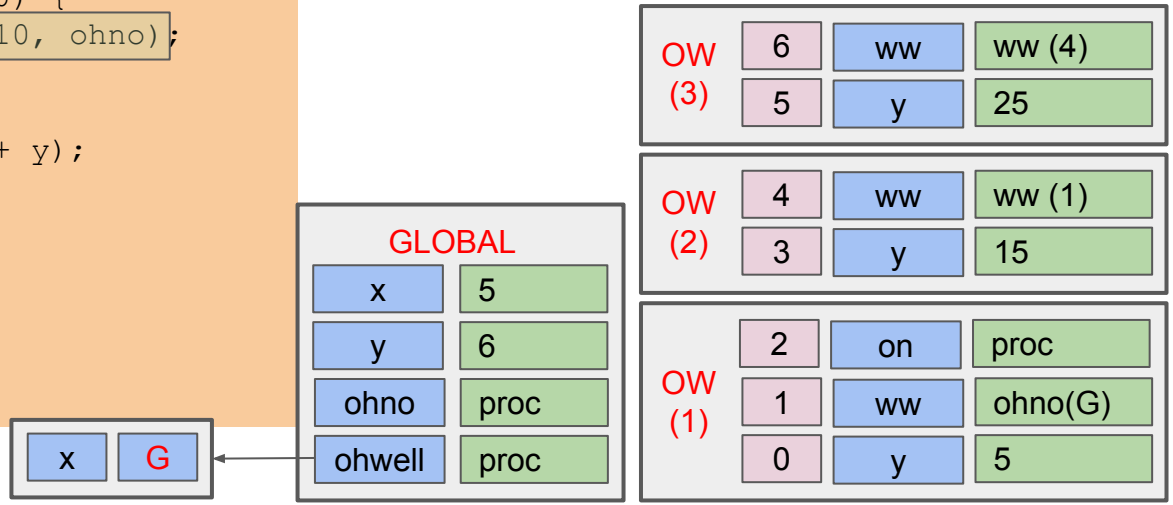
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

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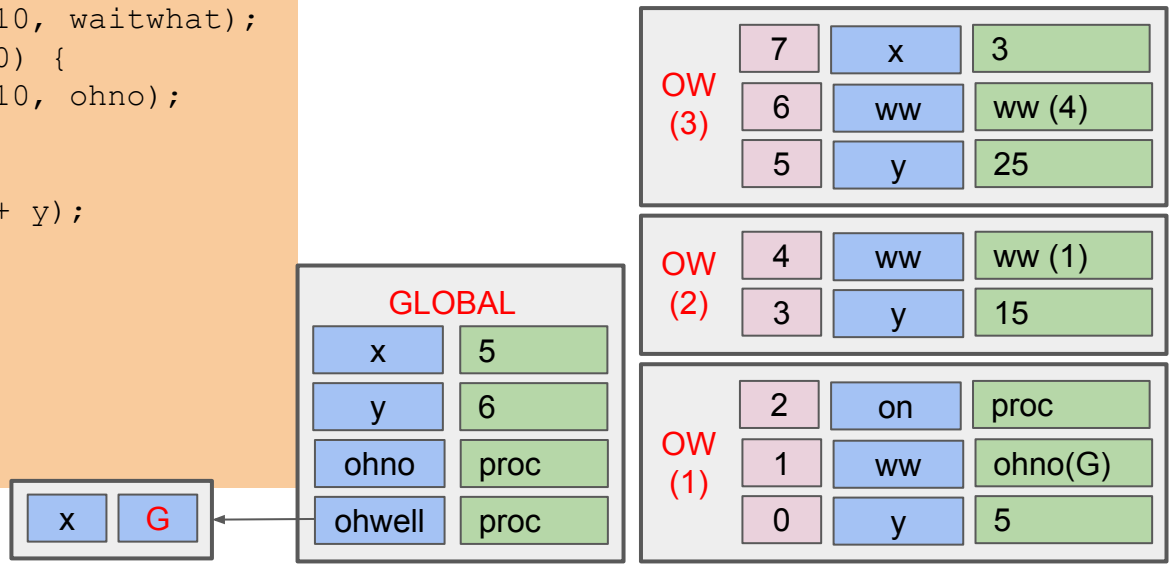
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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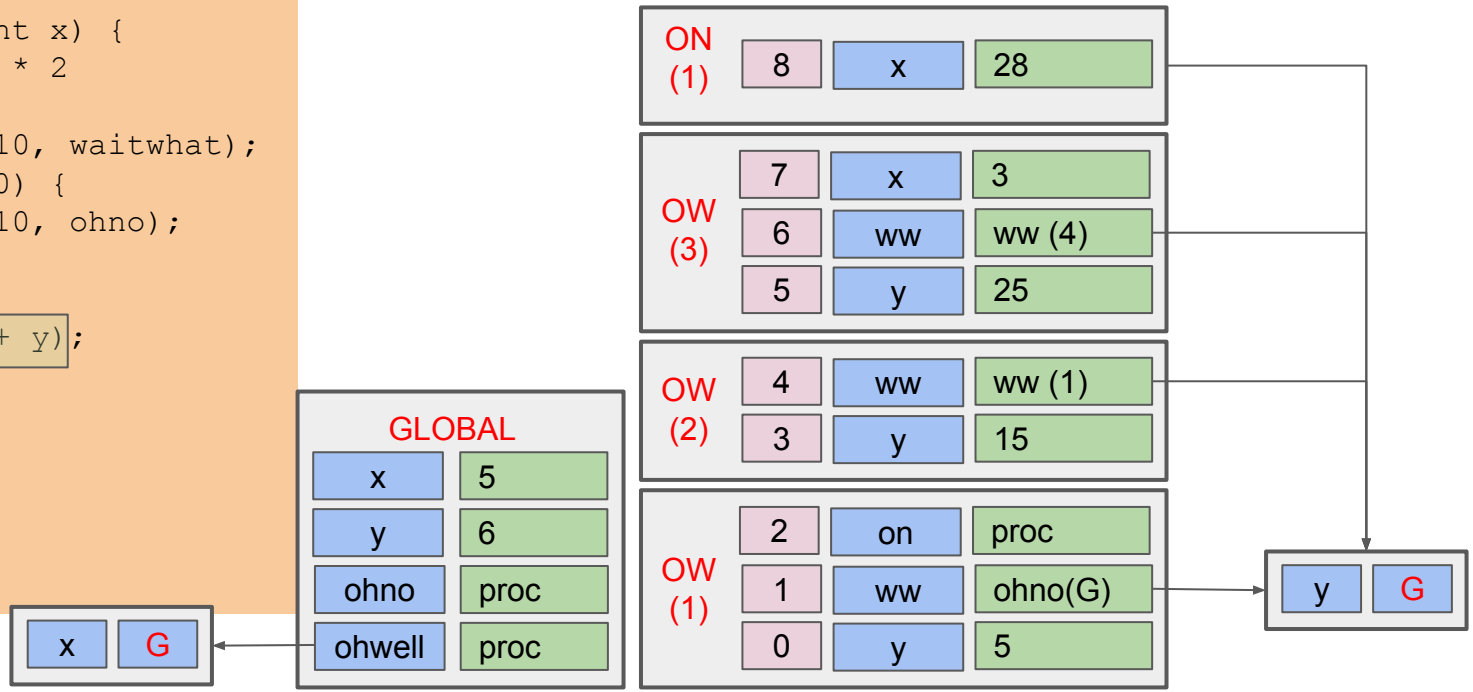
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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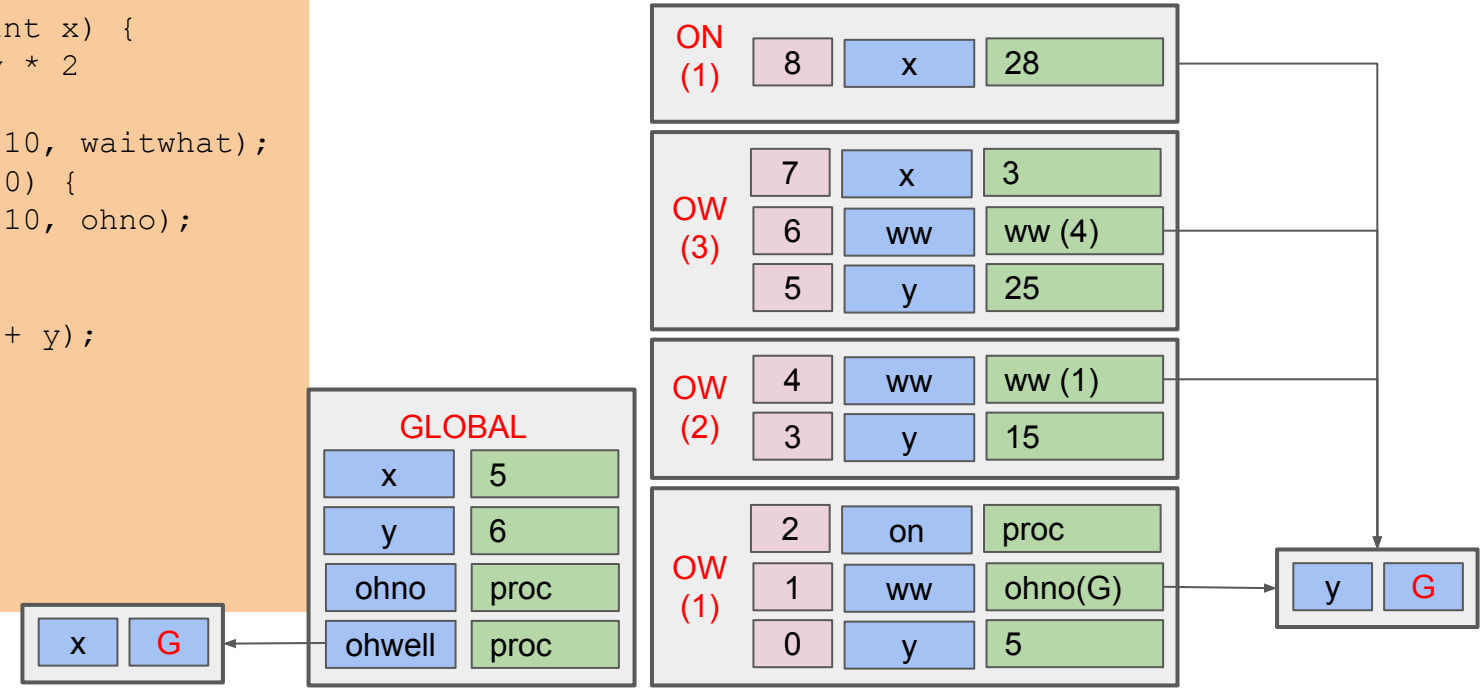
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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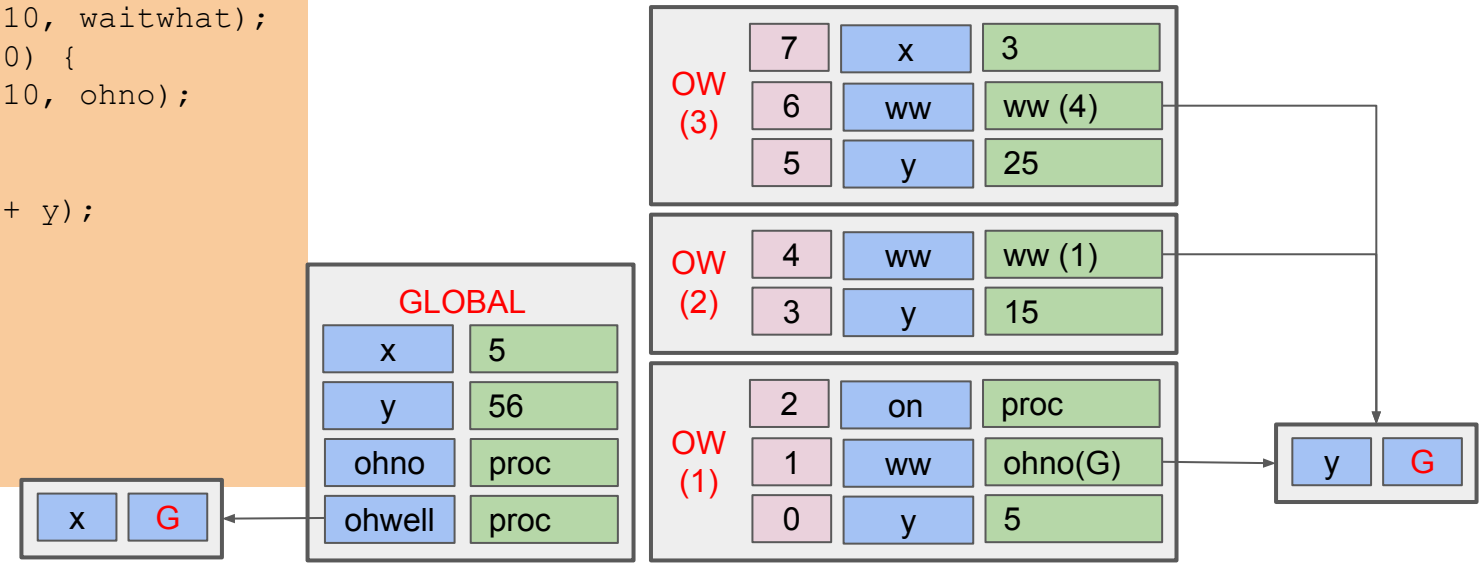
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

```
[3, 25]
```



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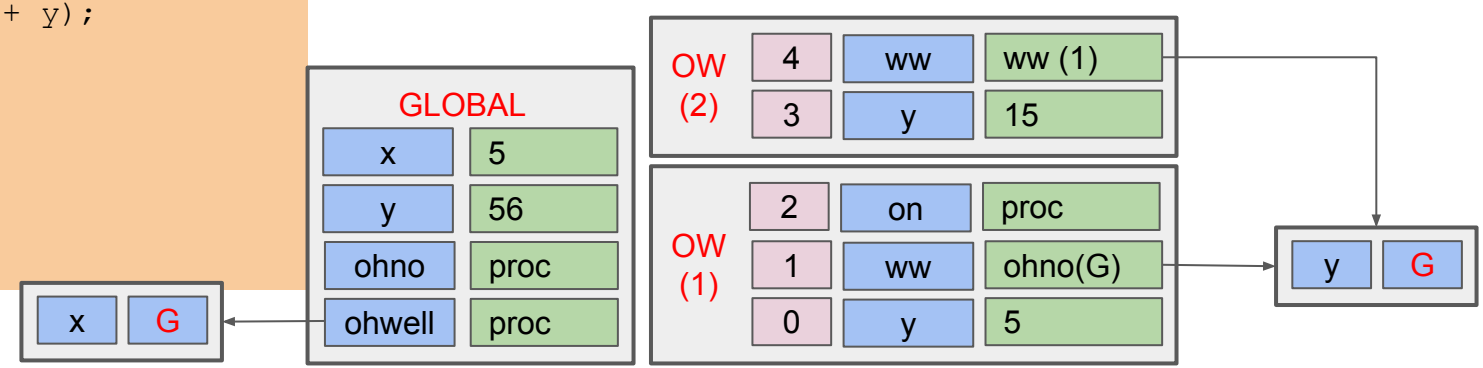
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]



ww = waitwhat, ow = ohwell, on = ohno

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     y := 2 * x;
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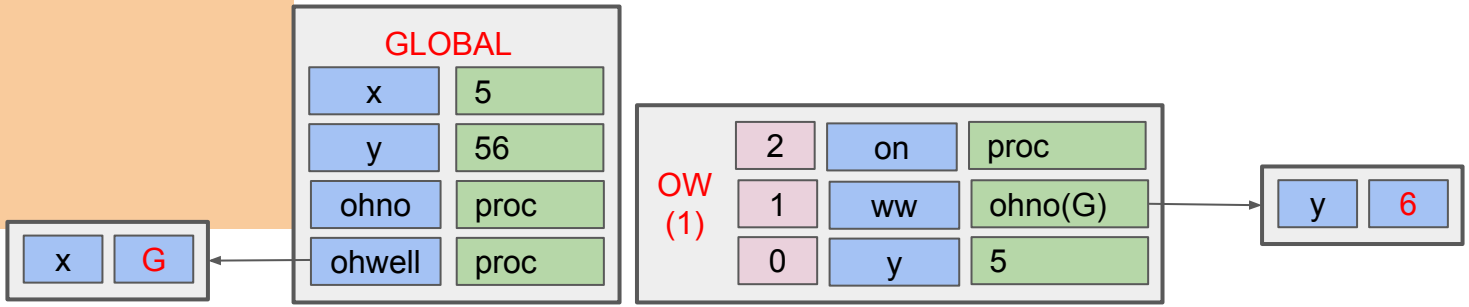
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 25] [5, 15]

[5, 5]



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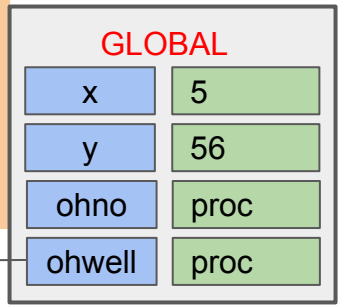
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 56]	[5, 15]
[5, 5]	[5, 56]



ww = waitwhat, ow = ohwell, on = ohno

Alcance Dinámico y Asociación Superficial

```
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     y := 2 * x;
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          proc ohno(int x) {
               x := y * 2
          }
          ohwell(y + 10, waitwhat);
     } else if (y < 20) {
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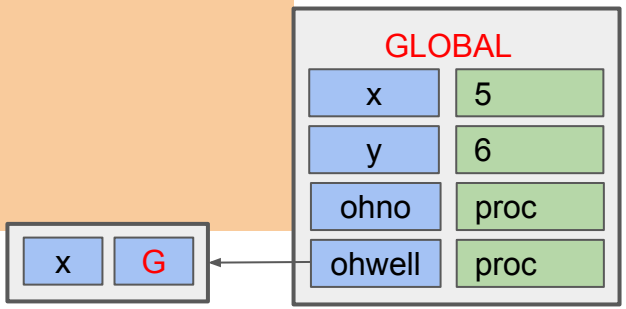
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



ww = waitwhat, ow = ohwell, on = ohno

```
int x = 5, y = 6;

proc ohno(int x) {
     y := 2 * x;
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proc ohwell(int y, proc waitwhat) {
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          proc ohno(int x) {
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          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

ww = waitwhat, ow = ohwell, on = ohno

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int x = 5, y = 6;

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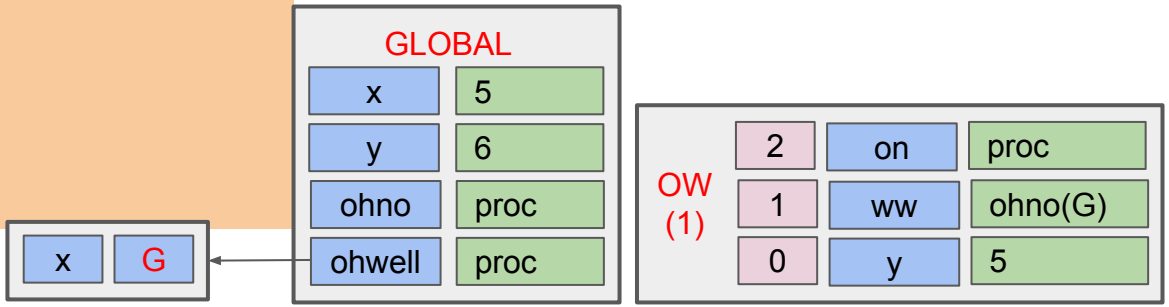
IMPRIME



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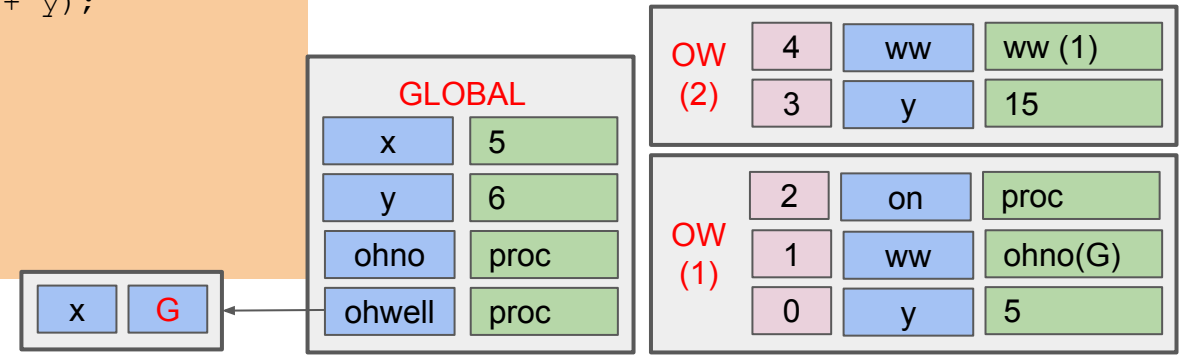
IMPRIME



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ohwell(x, ohno);
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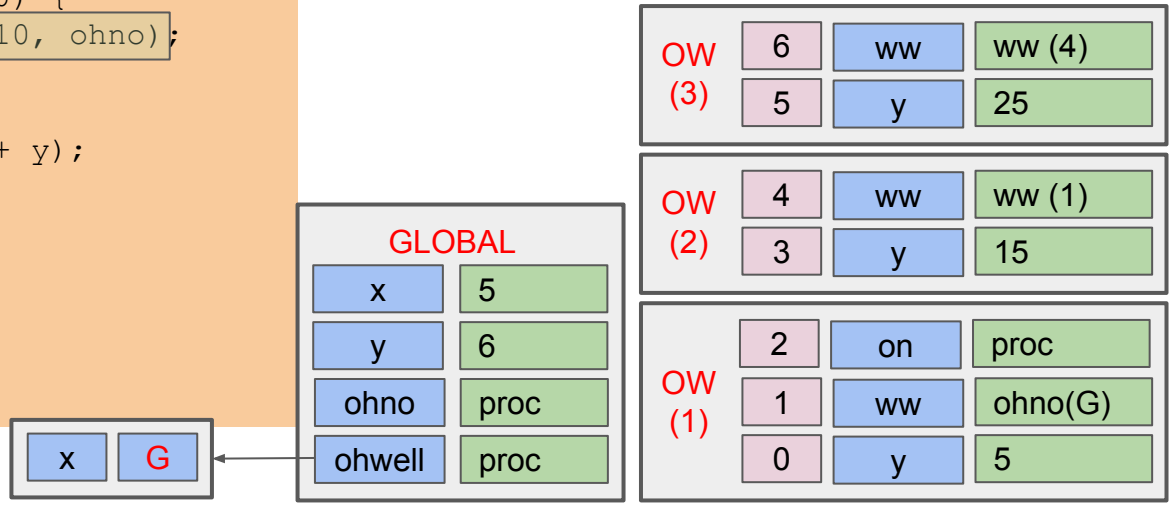
IMPRIME



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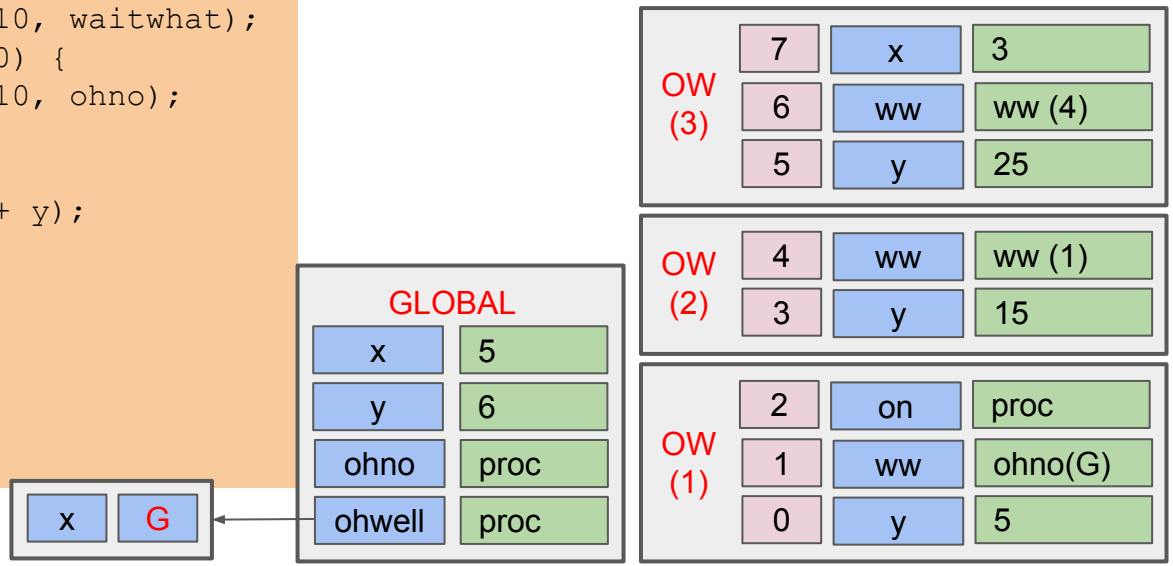
IMPRIME



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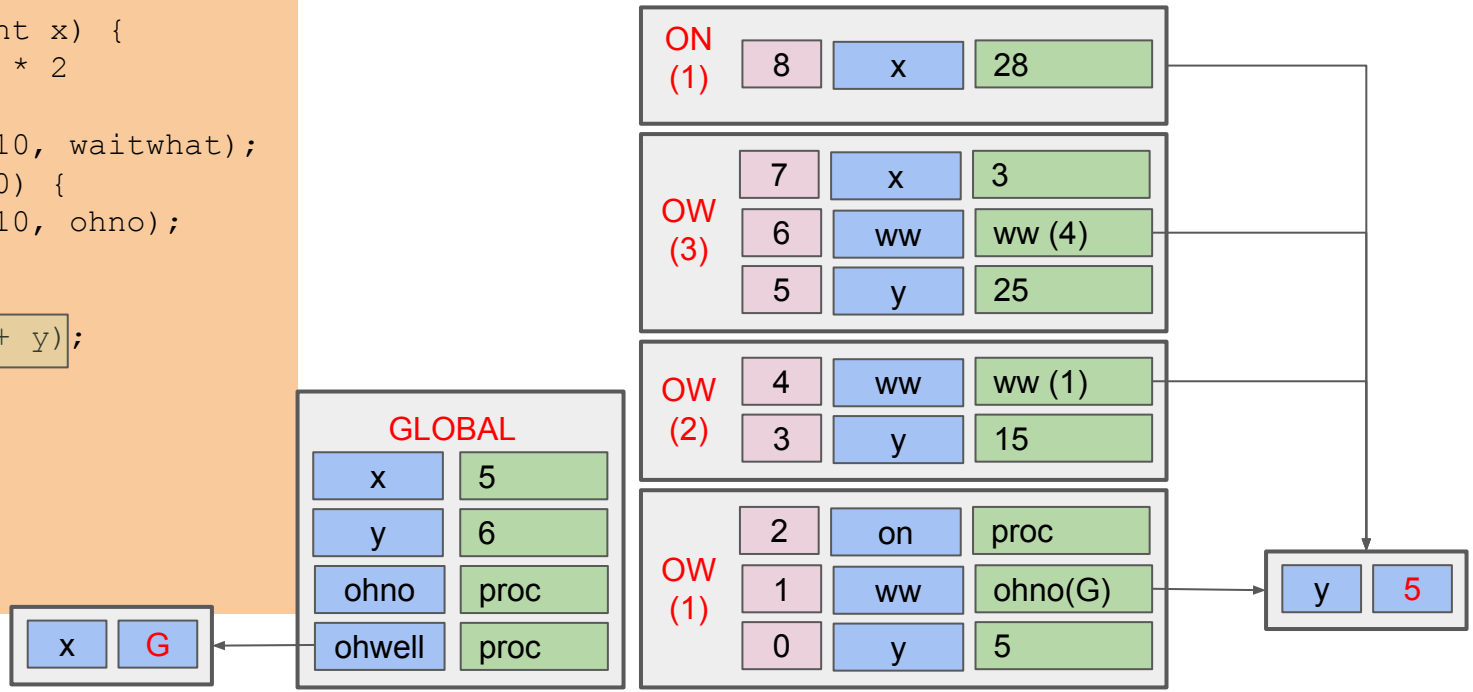
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME



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}

ohwell(x, ohno);
print(x, y);
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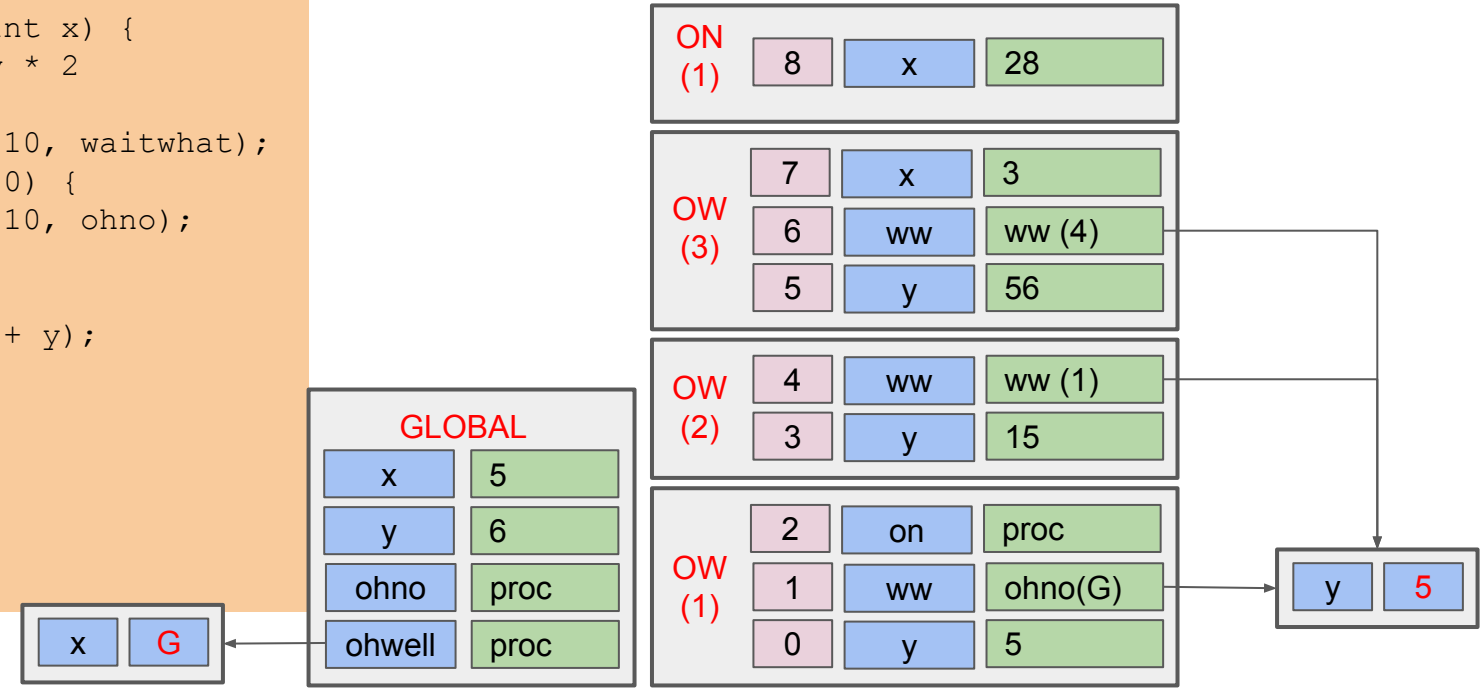
IMPRIME



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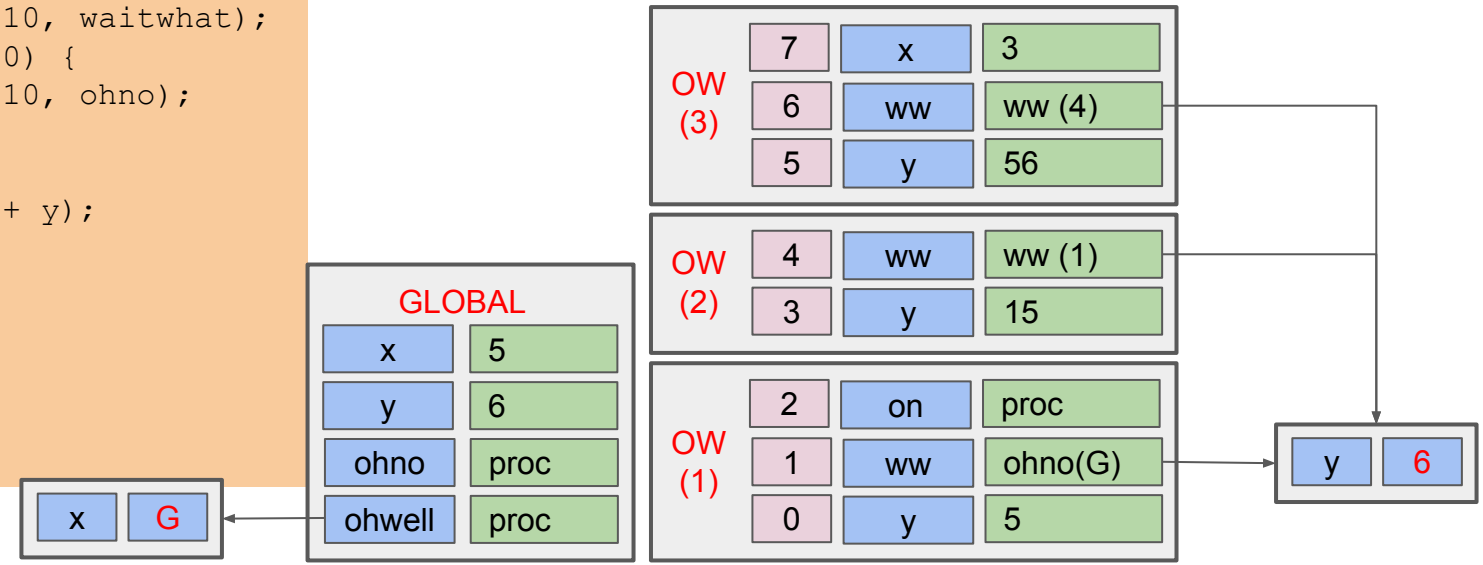
          ohwell(y + 10, ohno);
     } else {
          int x  = 3;
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

```
[3, 56]
```



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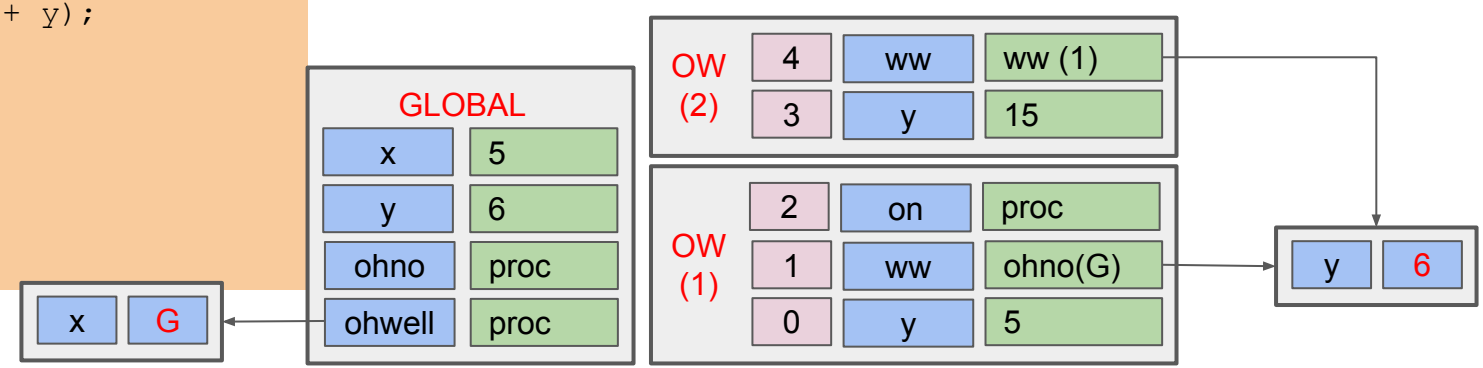
          waitwhat(x + y);
     }
     print(x, y);
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 56] [5, 15]



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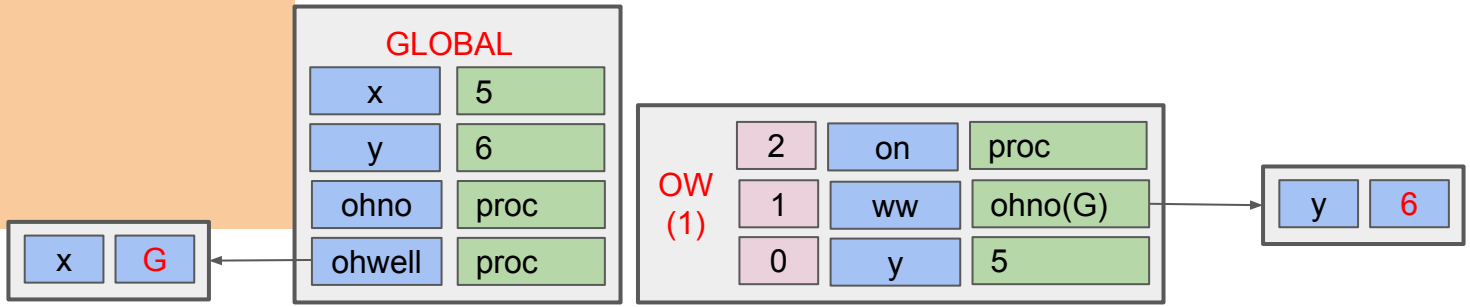
}

ohwell(x, ohno);
print(x, y);
```

IMPRIME

[3, 56] [5, 15]

[5, 5]



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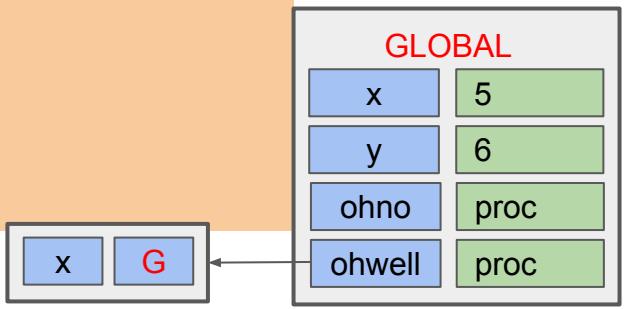
IMPRIME

[3, 56]	[5, 15]
[5, 5]	[5, 6]



ww = waitwhat, ow = ohwell, on = ohno