## Code

## Frames

## Trace

```
while j < 100:

j += 1

if a is None:

break

a = a.f()
```

```
\mathbf{a} = a_1 \mathbf{j} = j_2
```

```
 [j_1, a_1] \\ j_2 = \text{int\_add}(j_1, 1) \\ \text{guard\_nonnull}(a_1) \\ \text{guard\_class}(a_1, \text{Even}) \\ i_1 = \text{getfield\_gc}(a_1, \text{descr='value'}) \\ i_2 = \text{int\_rshift}(i_1, 2)
```

```
n = self.value >> 2
if n == 1:
    return None
return self.build(n)
```

$$\begin{array}{c} \mathbf{n} = i_2 \\ \mathbf{self} = a_1 \end{array}$$