Code

Frames

Trace

```
while j < 100:

j += 1

if a is None:

break

a = a.f()
```

$$\begin{array}{c} \mathbf{a} = a_1 \\ \mathbf{j} = j_2 \end{array}$$

```
 \begin{aligned} &[j_1,\ a_1]\\ &j_2 = \mathsf{int\_add}(j_1,\ 1)\\ &\mathsf{guard\_nonnull}(a_1)\\ &\mathsf{guard\_class}(a_1,\ \mathsf{Even}) \end{aligned}
```

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

$$n = self = a_1$$