

loop[i_0 , i_1]:

```
graph TD; Header([loop[i0, i1]:]) --> Block1[p0 = new(BoxedInteger)  
setfield(p0, intval, i0)  
p1 = new(BoxedInteger)  
setfield(p1, intval, i1)]; Block1 --> Block2[guard_class(p1, BoxedInteger)  
i2 = getfield(p1, intval)  
guard_class(p0, BoxedInteger)  
i3 = getfield(p0, intval)  
i4 = int_add(i2, i3)  
i9 = int_add(i4, -100)]; Block2 --> Block3[guard_class(p0, BoxedInteger)  
i12 = getfield(p0, intval)  
i14 = int_add(i12, -1)]; Block3 --> Block4[i17 = int_gt(i14, 0)  
guard_true(i17)]; Block4 --> Block5[jump(i14, i9)]; Block5 -- loop --> Header;
```

```
p0 = new(BoxedInteger)
setfield(p0, intval, i0)
p1 = new(BoxedInteger)
setfield(p1, intval, i1)
```

```
guard_class(p1, BoxedInteger)
i2 = getfield(p1, intval)
guard_class(p0, BoxedInteger)
i3 = getfield(p0, intval)
i4 = int_add(i2, i3)
i9 = int_add(i4, -100)
```

```
guard_class(p0, BoxedInteger)
i12 = getfield(p0, intval)
i14 = int_add(i12, -1)
```

```
i17 = int_gt(i14, 0)
guard_true(i17)
```

```
jump(i14, i9)
```