

L1 L2 L3

Thorn

✓

Typed Racket

✓

Transient RetPy

✓

✓

TypeScript

✓

✓

✓

```
class A {
  m(x:A):A {this}}
```

L1

```
class I {
  n(x:I):I {this}}
```

```
class T {
  s(x:I):T {this}
  t(x:*):* {this.s(x)}}
```

```
new T().t(new A())
```

```
class A {
  m(x:A):A {this}}
```

L2

```
class Q {
  m(x:Q):Q {this}}
```

```
class I {
  m(x:Q):I {this}}
```

```
class T {
  s(x:I):T {this}
  t(x:*):* {this.s(x)}}
```

```
new T().t(new A())
```

```
class C {
  m(x:C):C {x}}
```

L3

```
class D {
  n(x:D):D {x}}
```

```
class E {
  m(x:D):D {x}}
```

```
class F {
  m(x:E):E {x}
  n(x:*):* {this.m(x)}}
```

```
new F().n(new C())
      .m(new C())
```