

Examples using the core syntax for sequences:

```
$ 1 : (2 : nil)
```

```
→ 1, 2
```

```
$ 1, 2, 3
```

```
→ 1, 2, 3
```

```
$ let lst = "a", "b", "c" in first[lst], first[rest[lst]], lst[2]
```

```
→ "a", "b", "c"
```

Note: $f^*(x)$ produces a lazy sequence, and $x[i]$ uses no stack:

```
$ let inc = (fn x → x + 1) in (inc*(1))[999,999]
```

```
→ 1,000,000
```

```
$ 1..10
```

```
→ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
```

```
$ (-100..1,000,000,000)[150]
```

```
→ 50
```

```
$ y2 | y ← 1..10
```

```
→ 1, 4, 9, 16, 25, 36, 49, 64, 81, 100
```