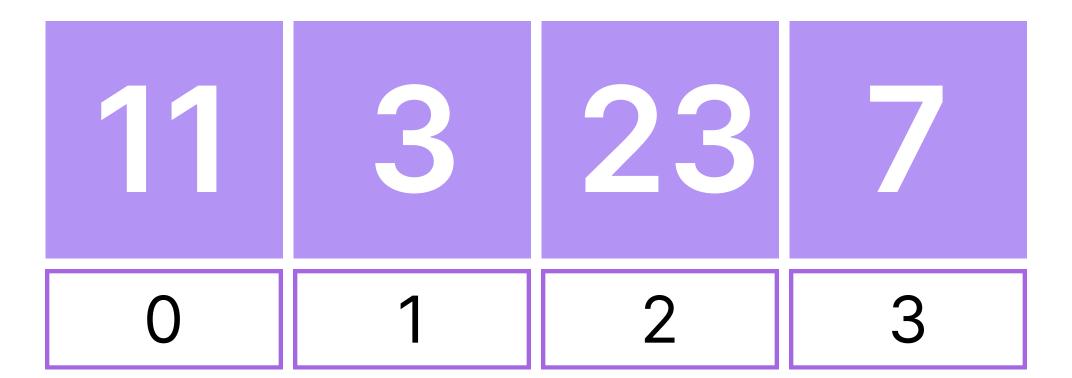
ARRAY



11 3 23 7



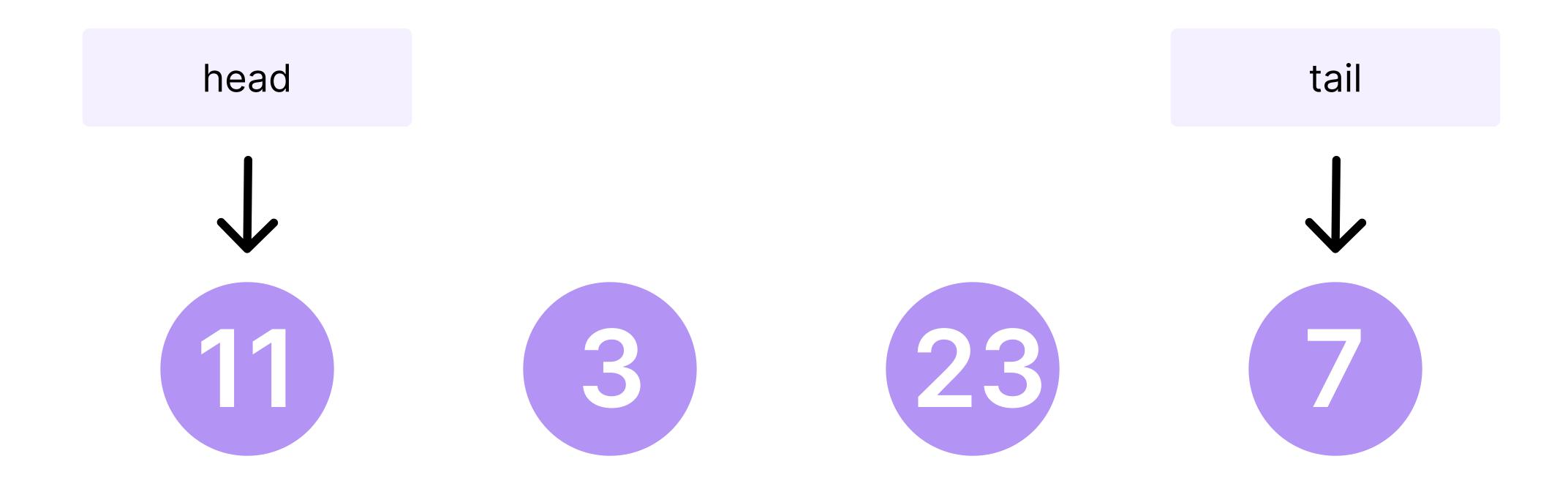


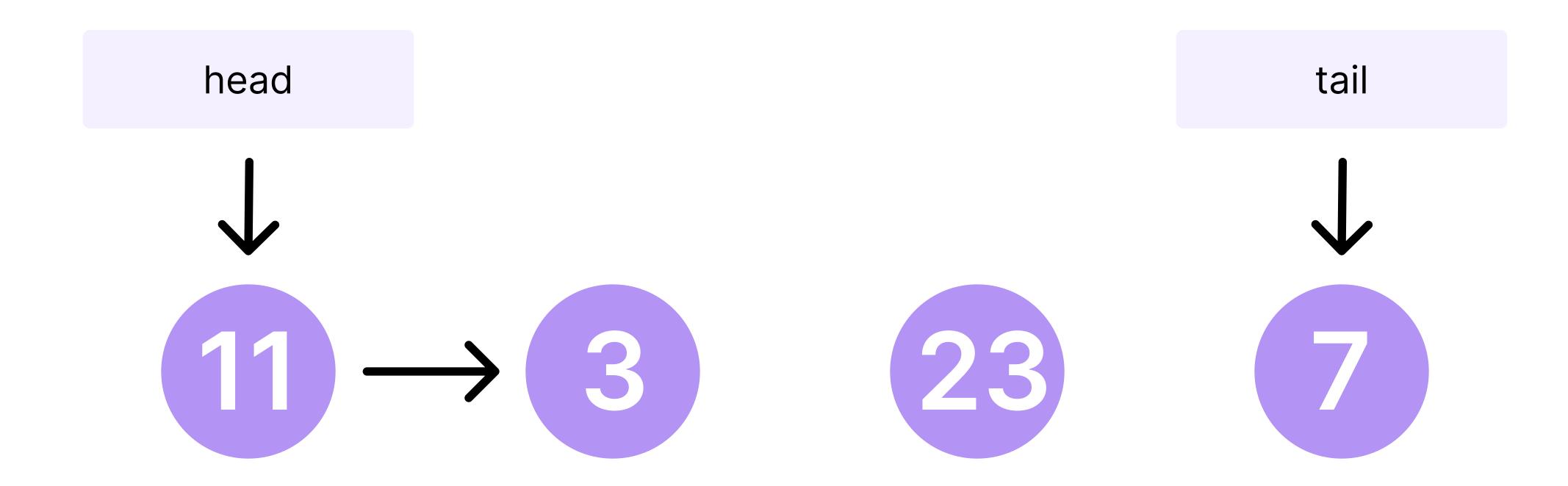


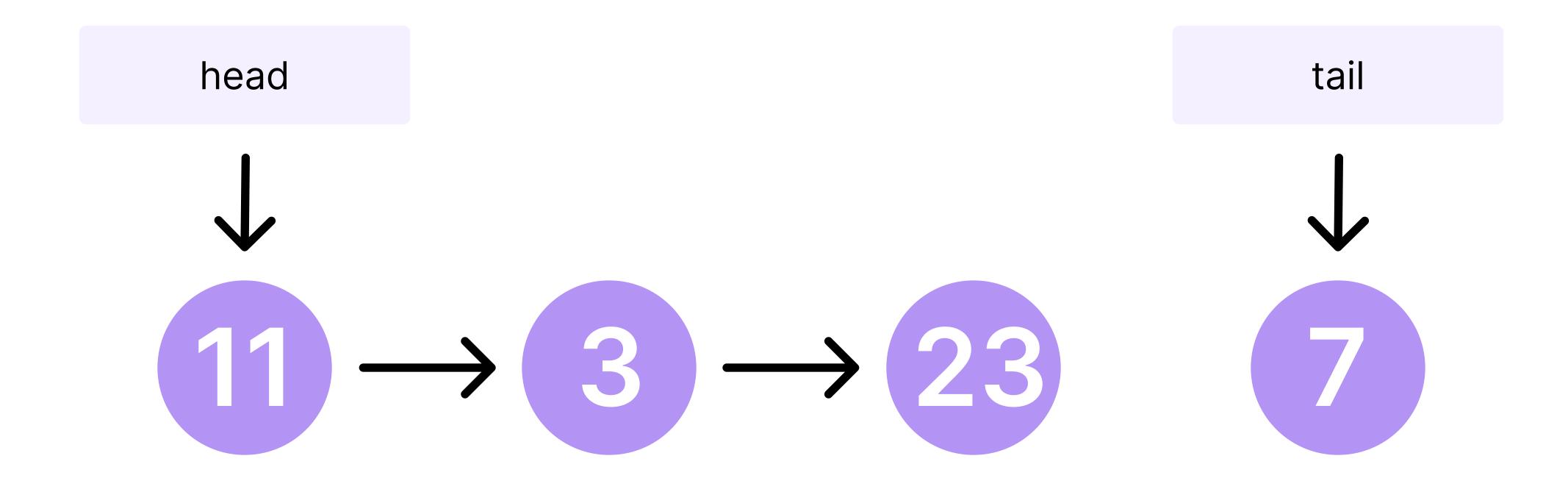


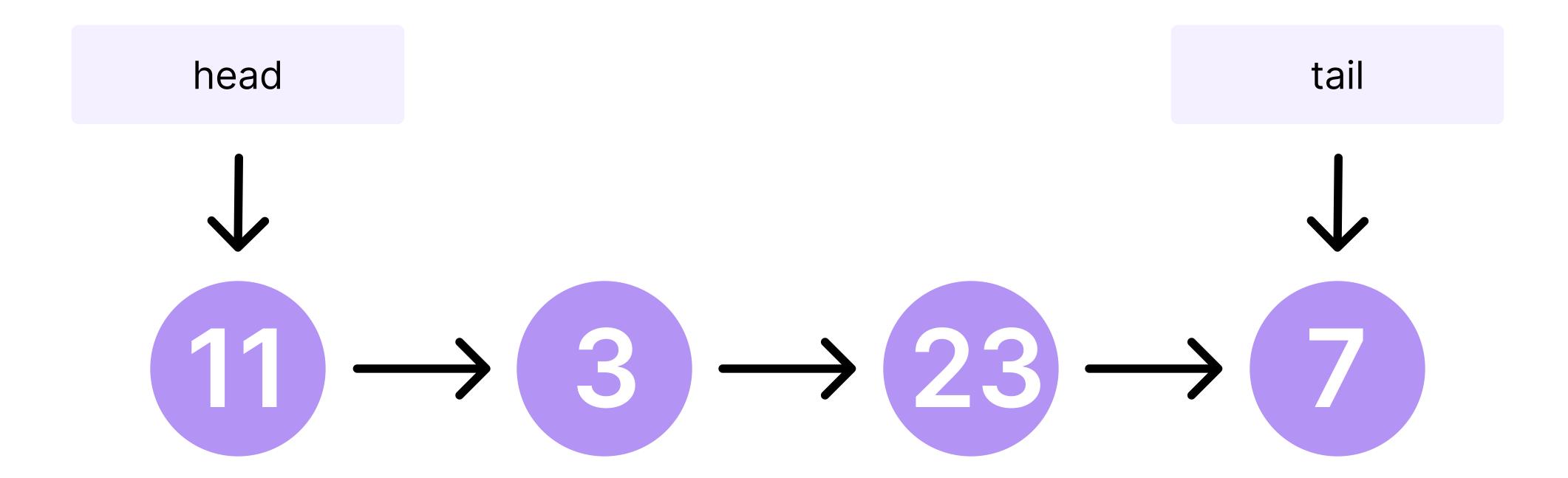
head

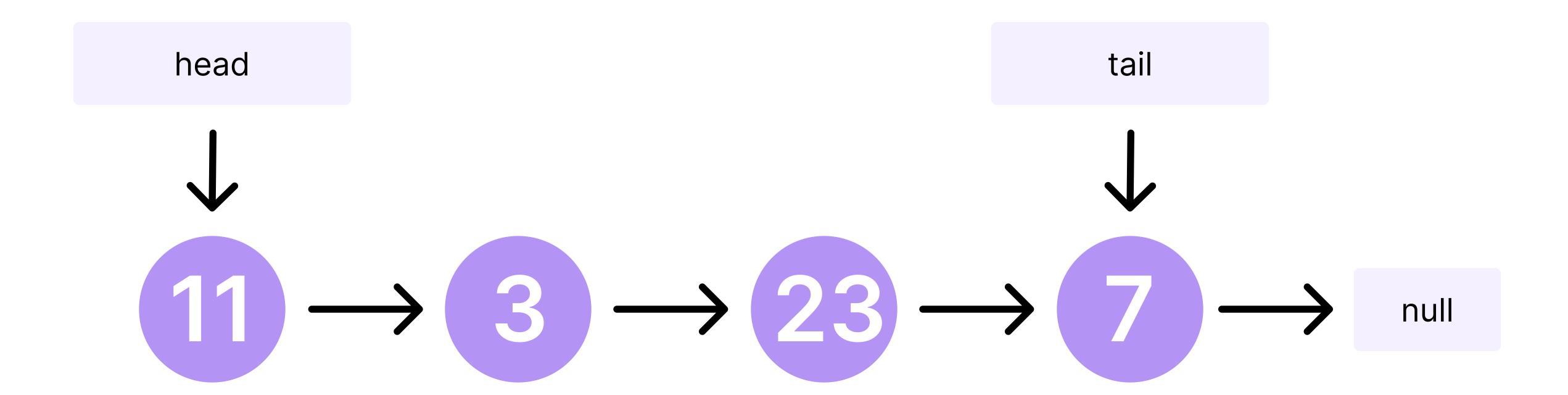
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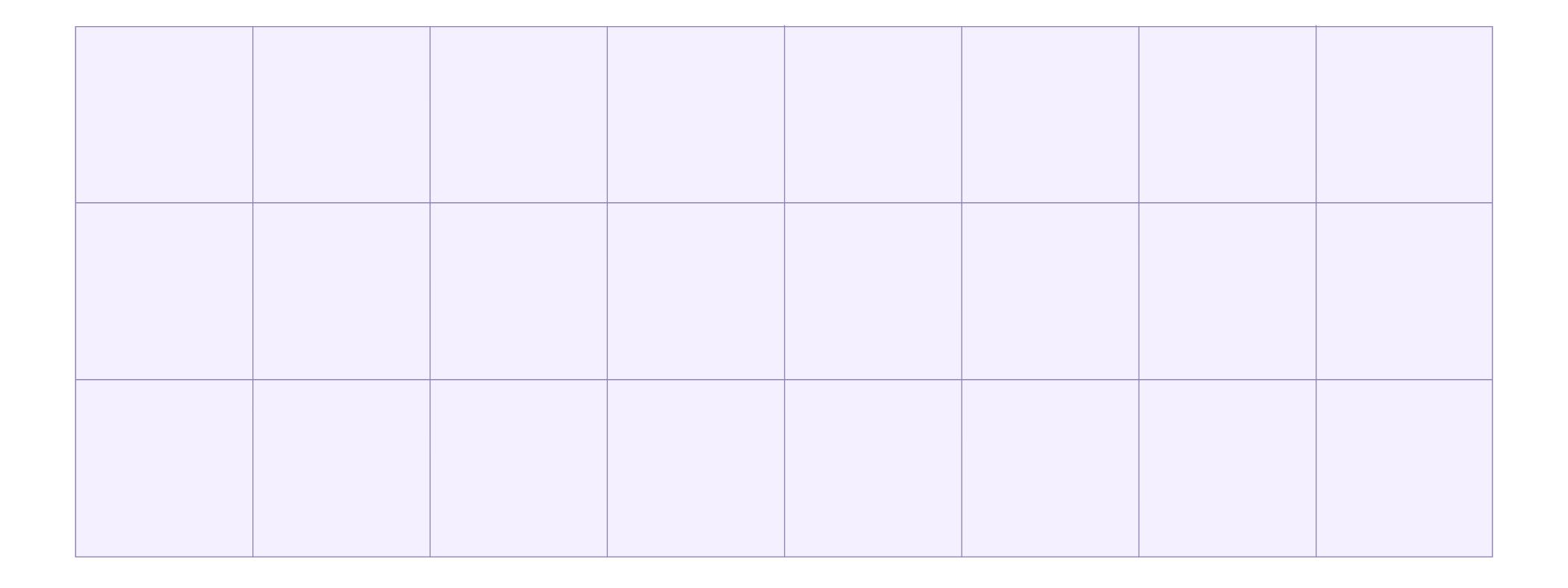


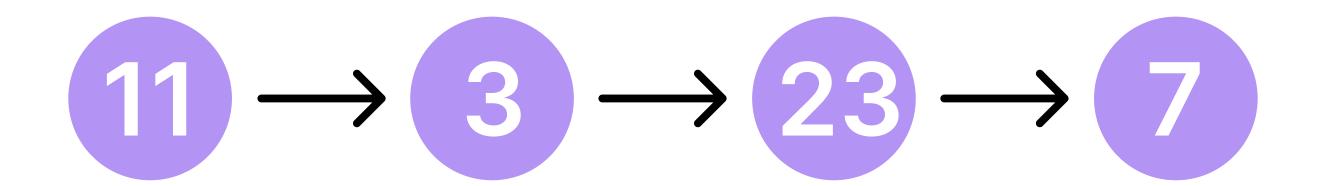


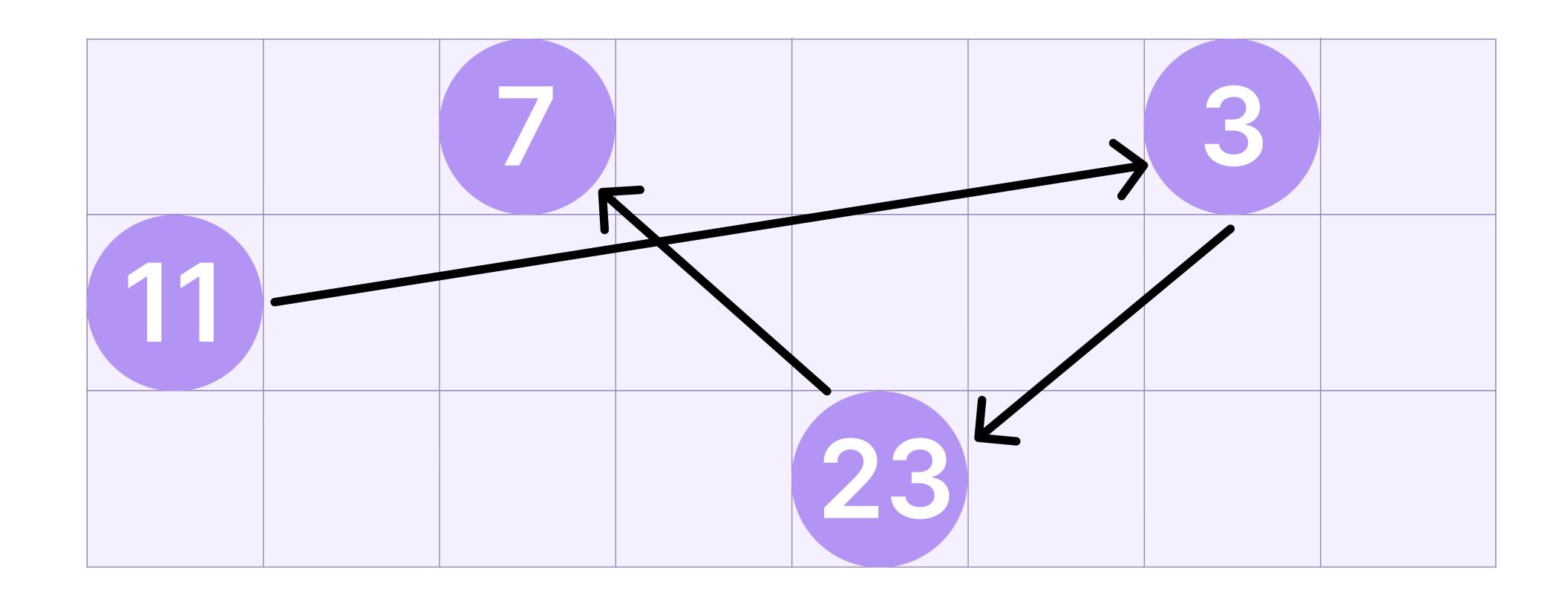


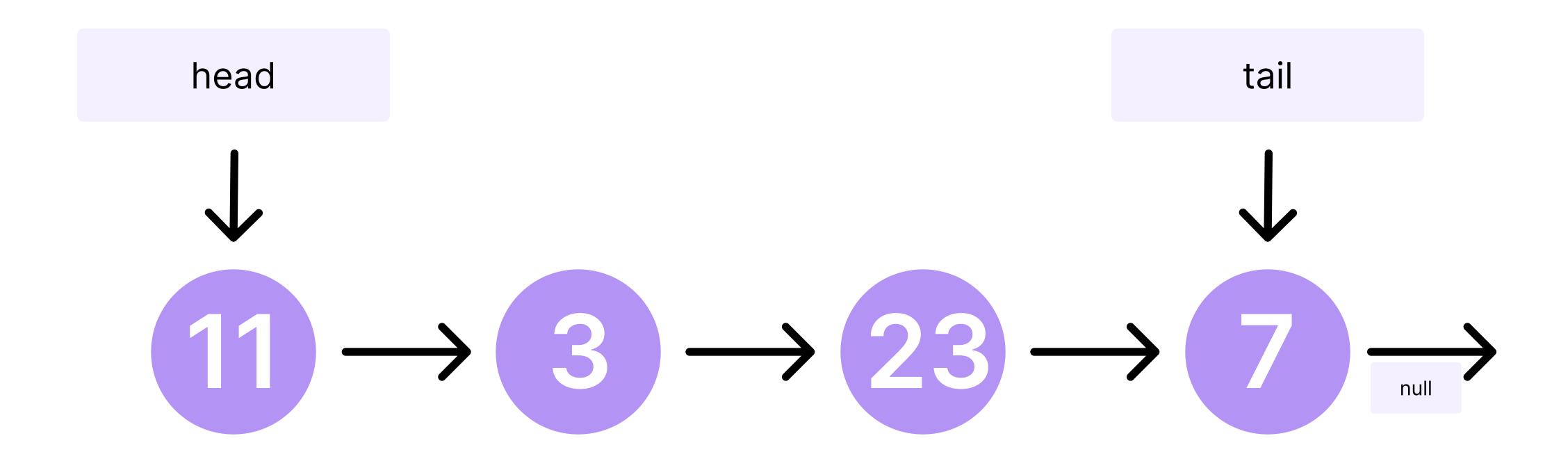


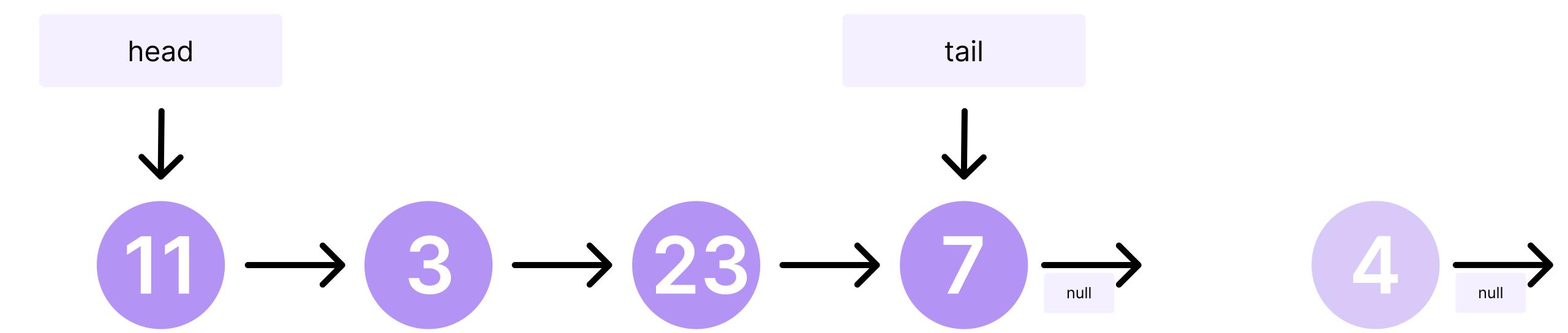
| | 3 | 23 | | |
|--|---|----|--|--|
| | | | | |

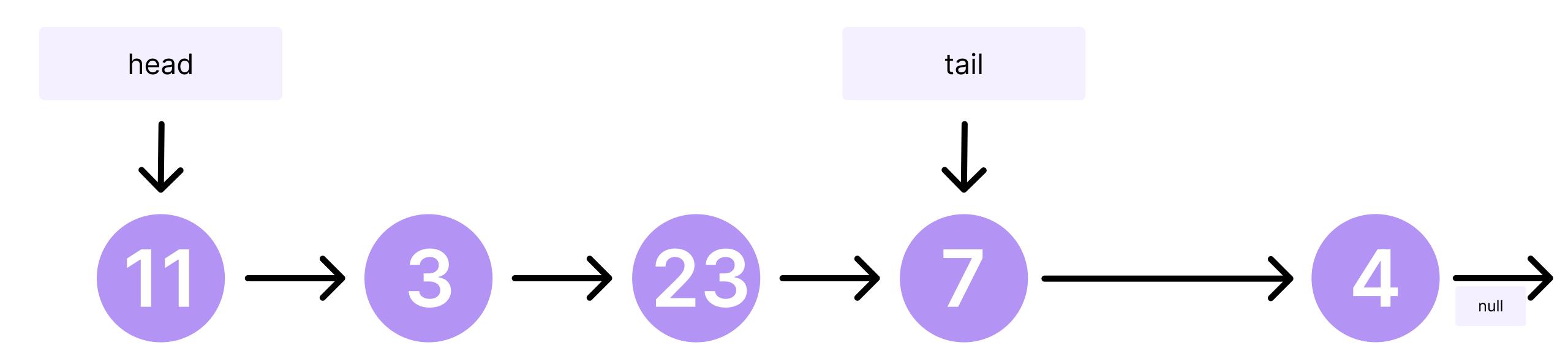


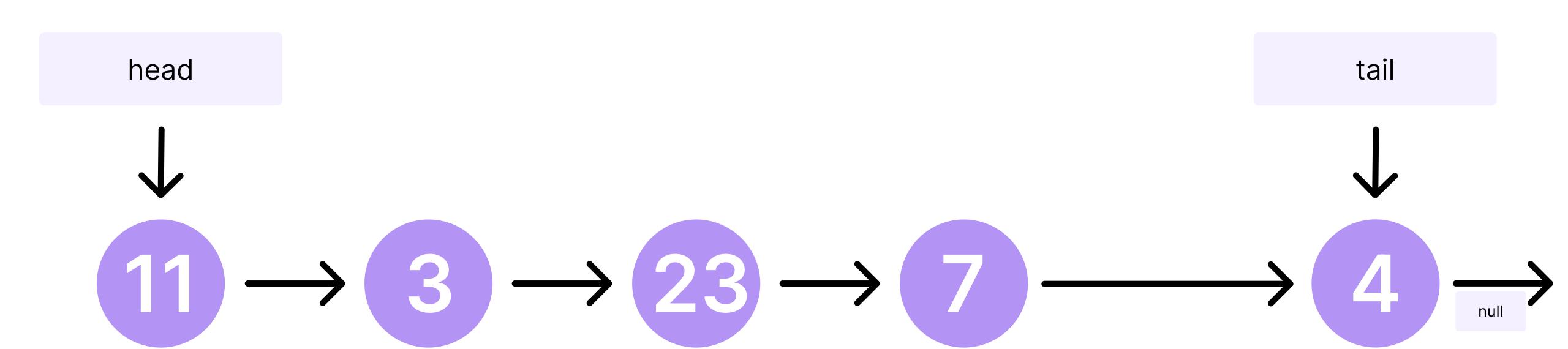


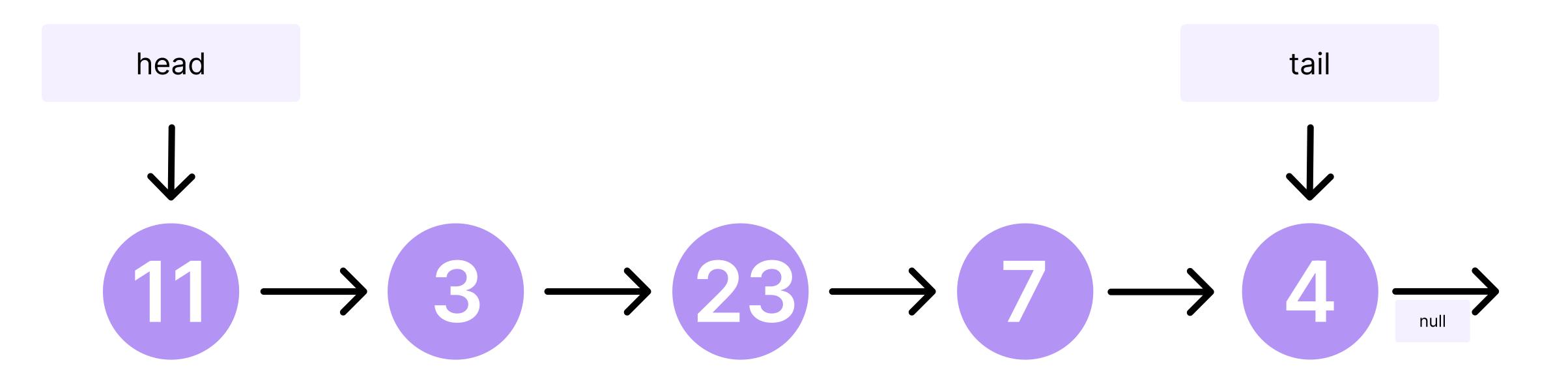


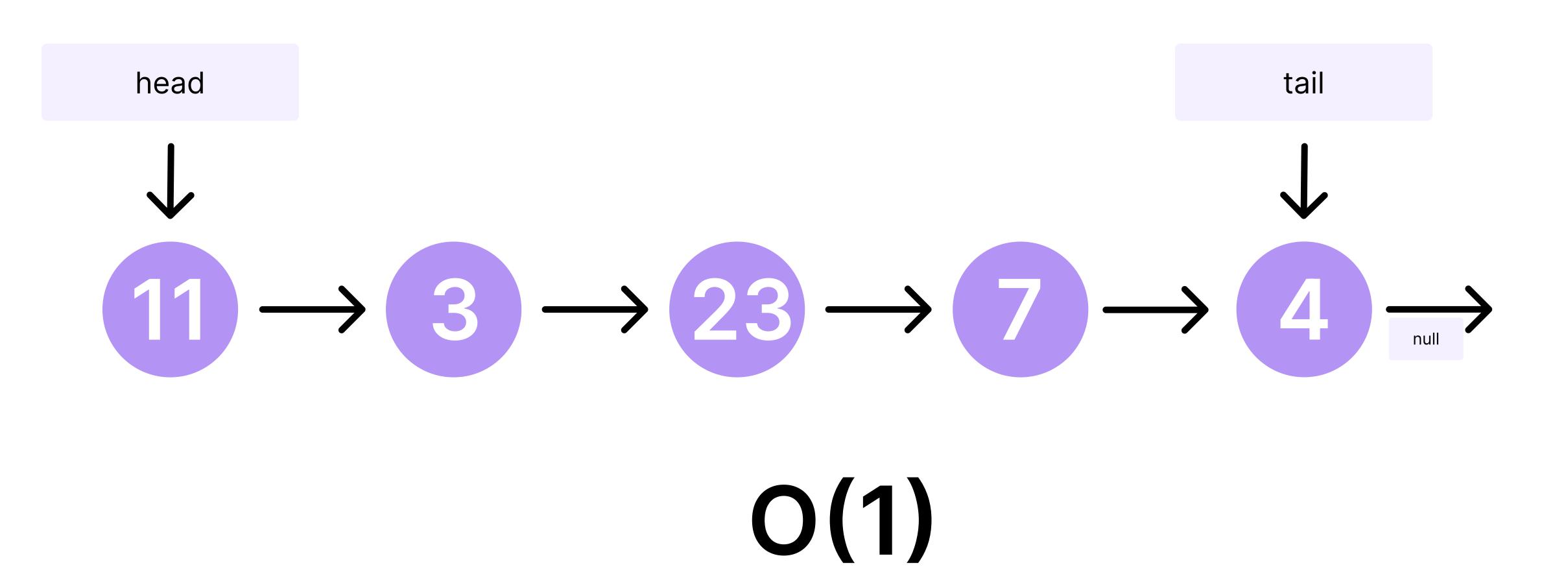


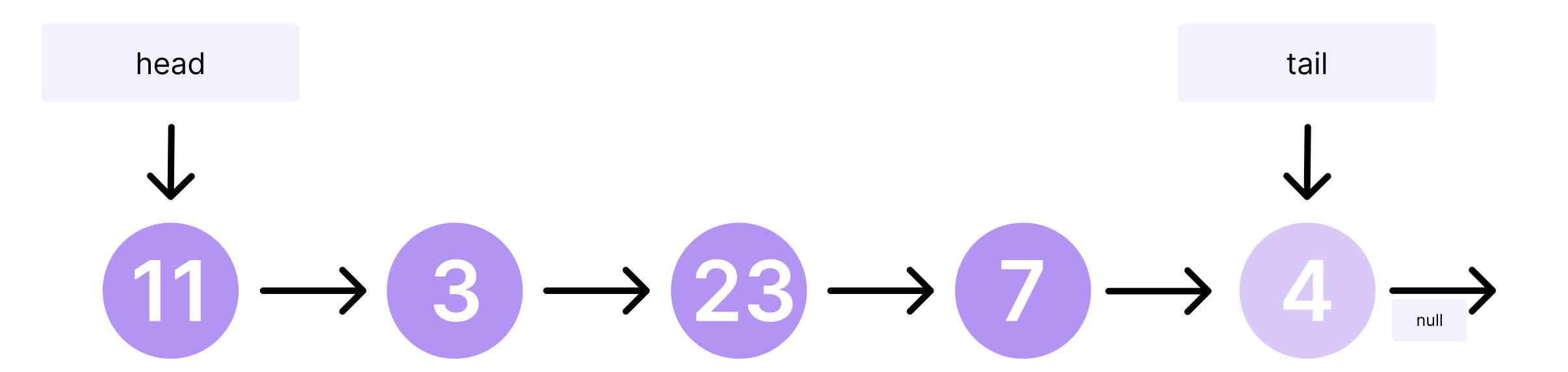


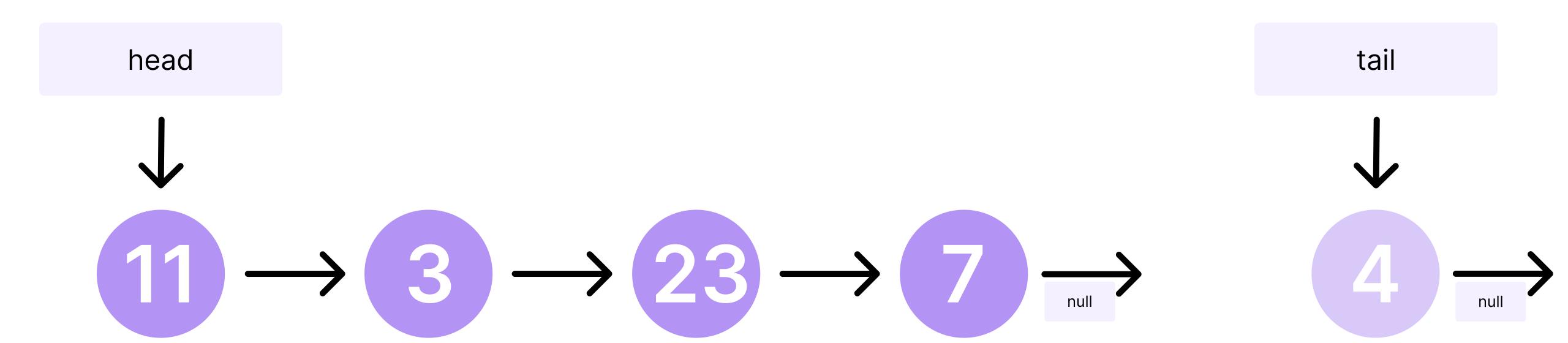




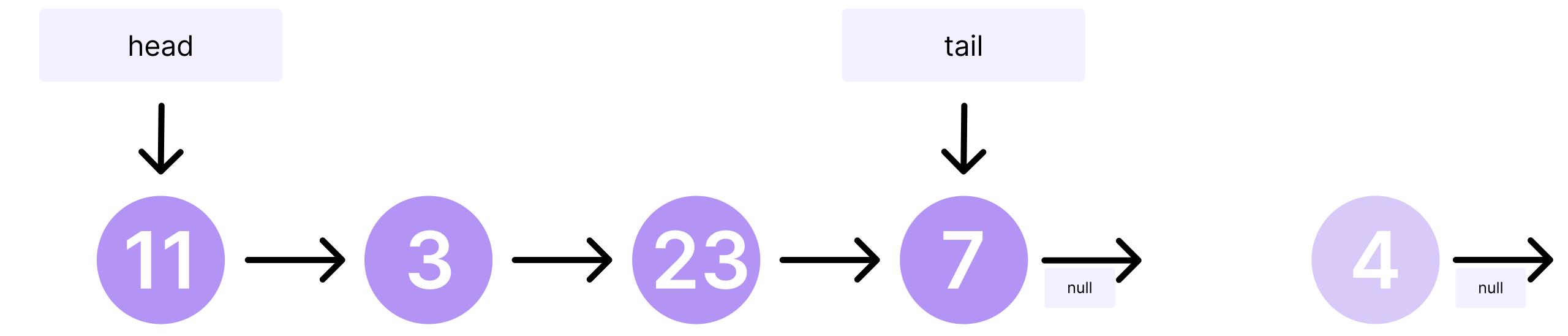


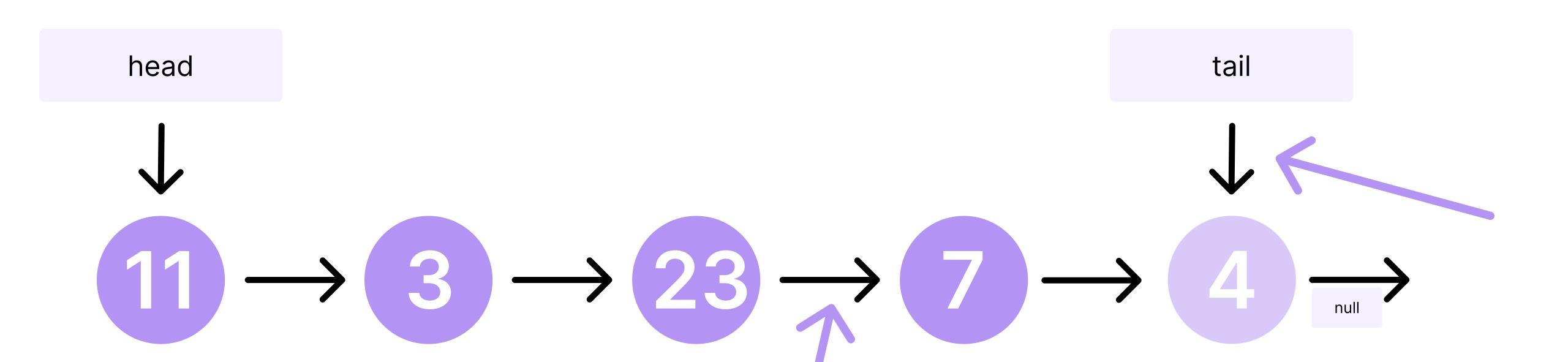


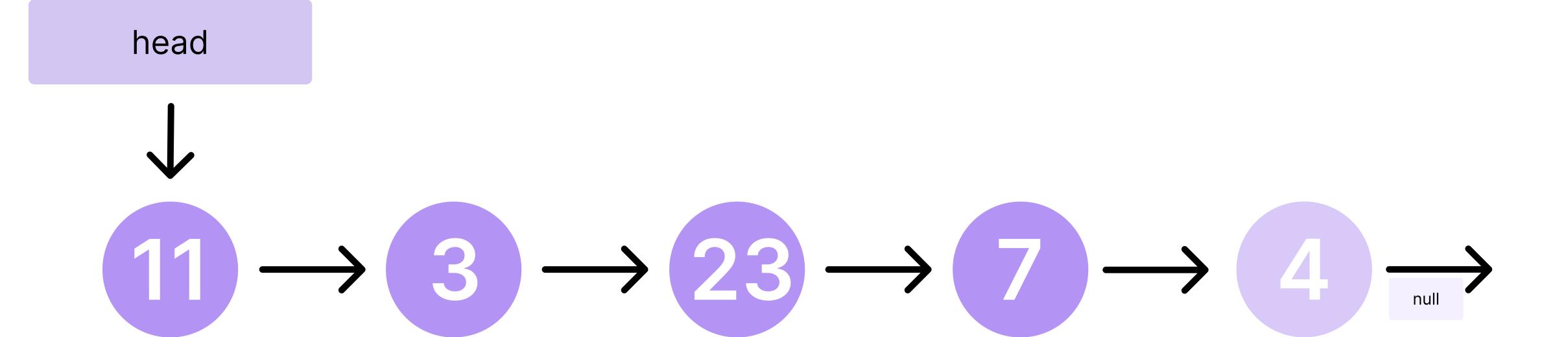


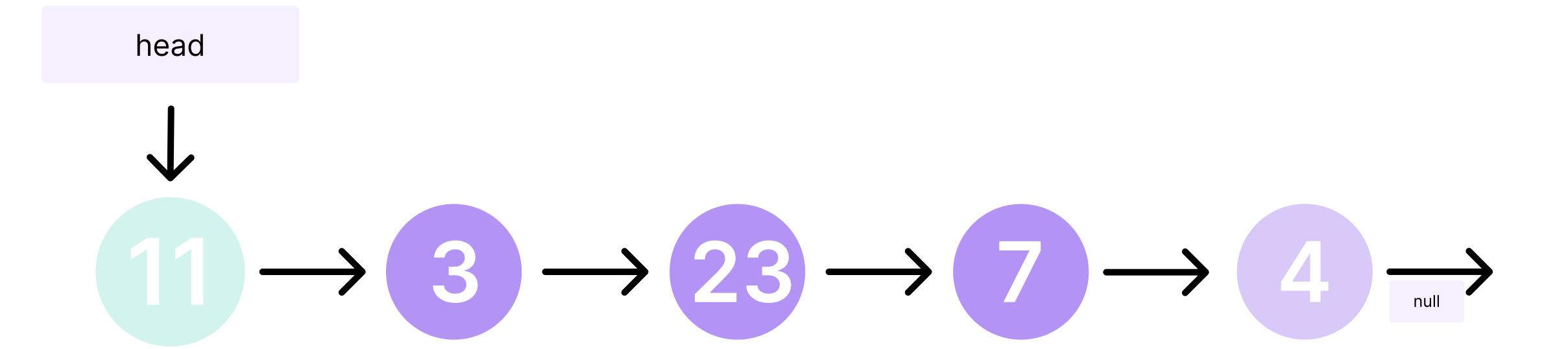


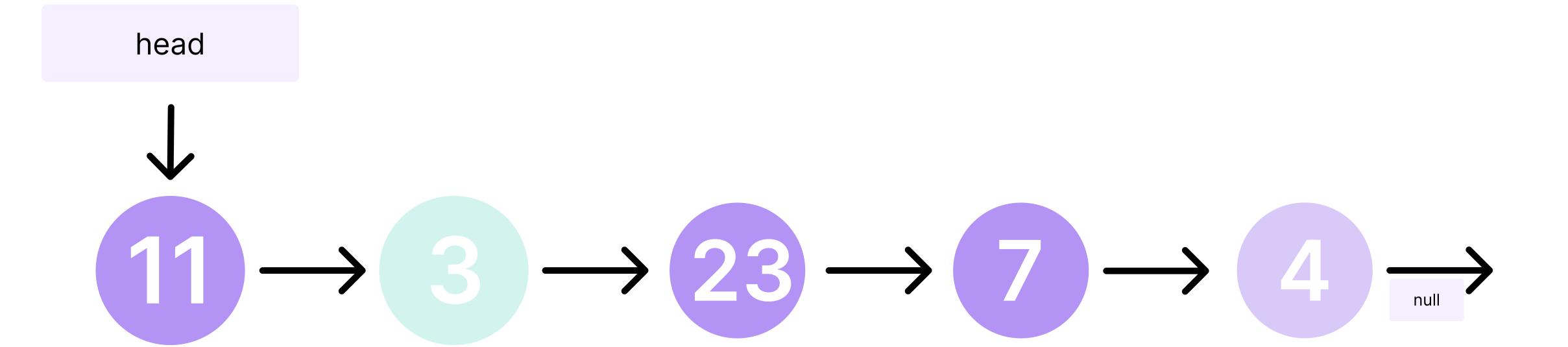
X

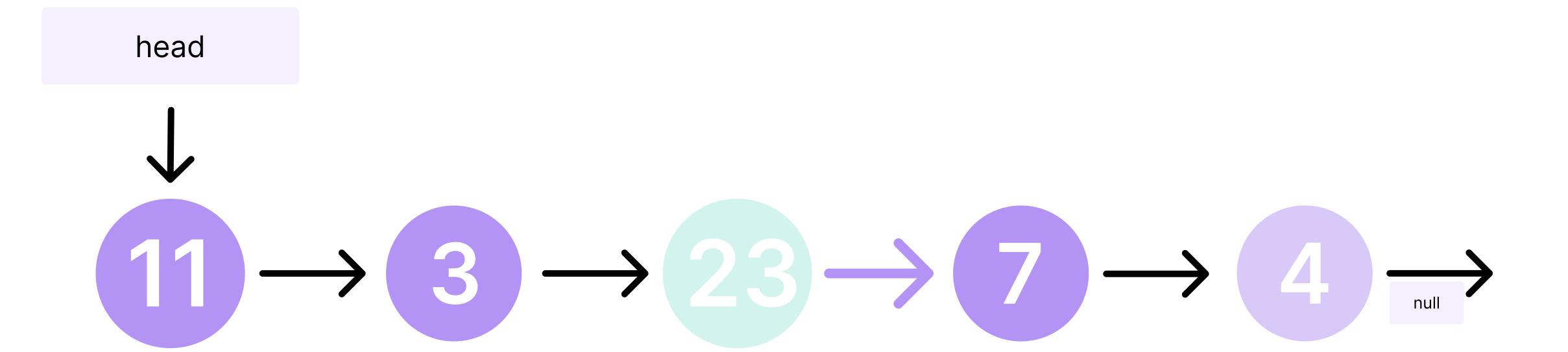


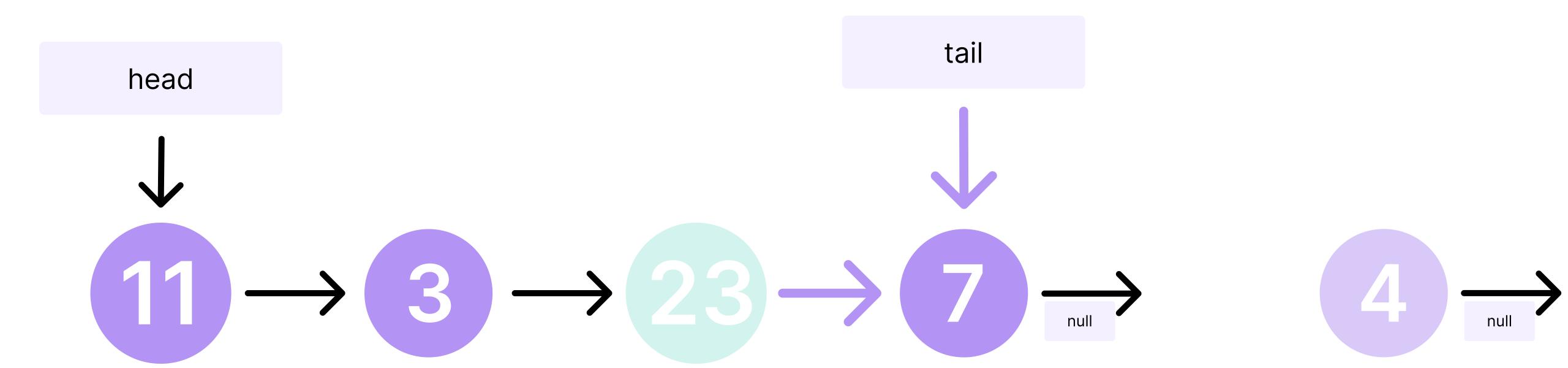




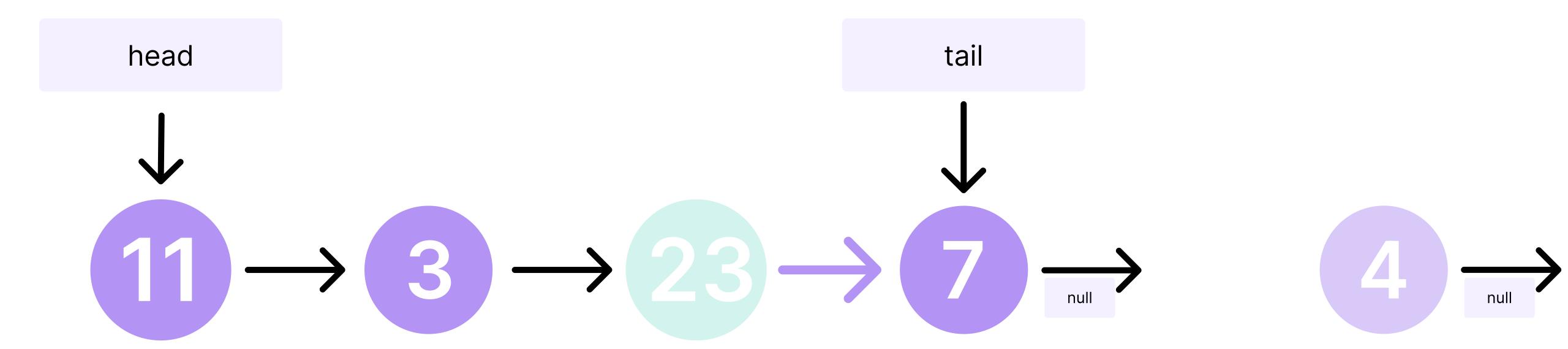






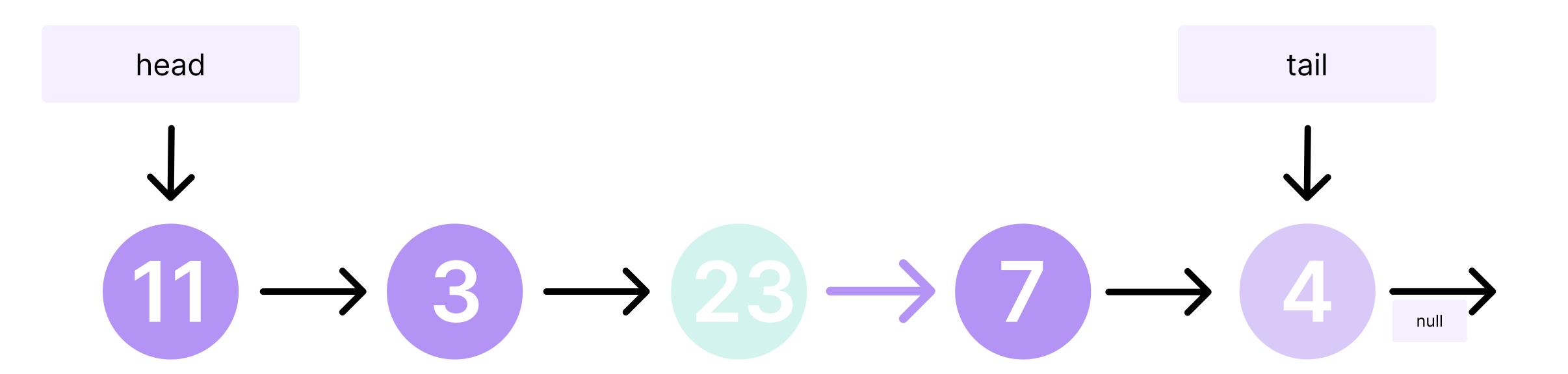


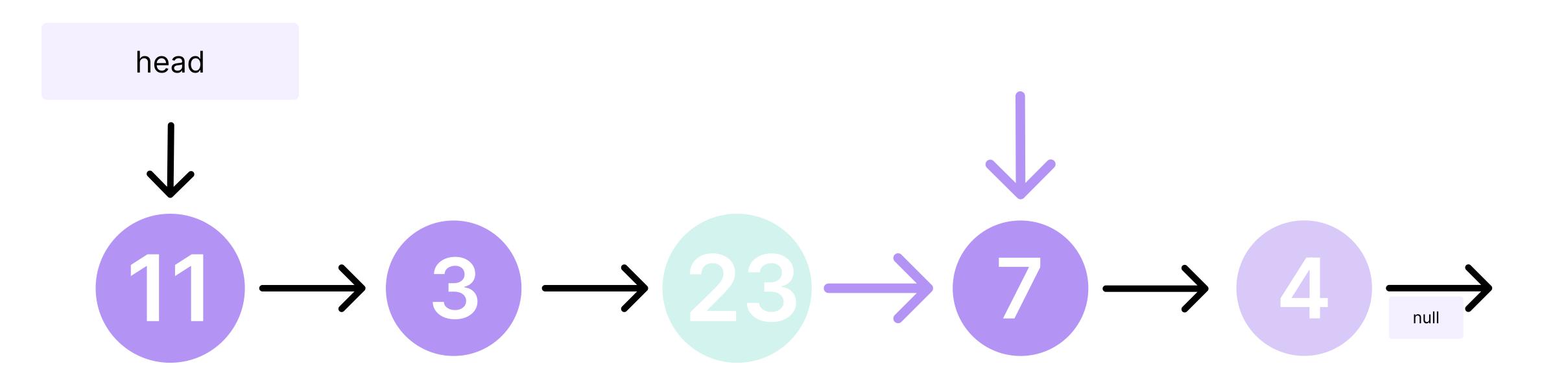
eliminar un elemento

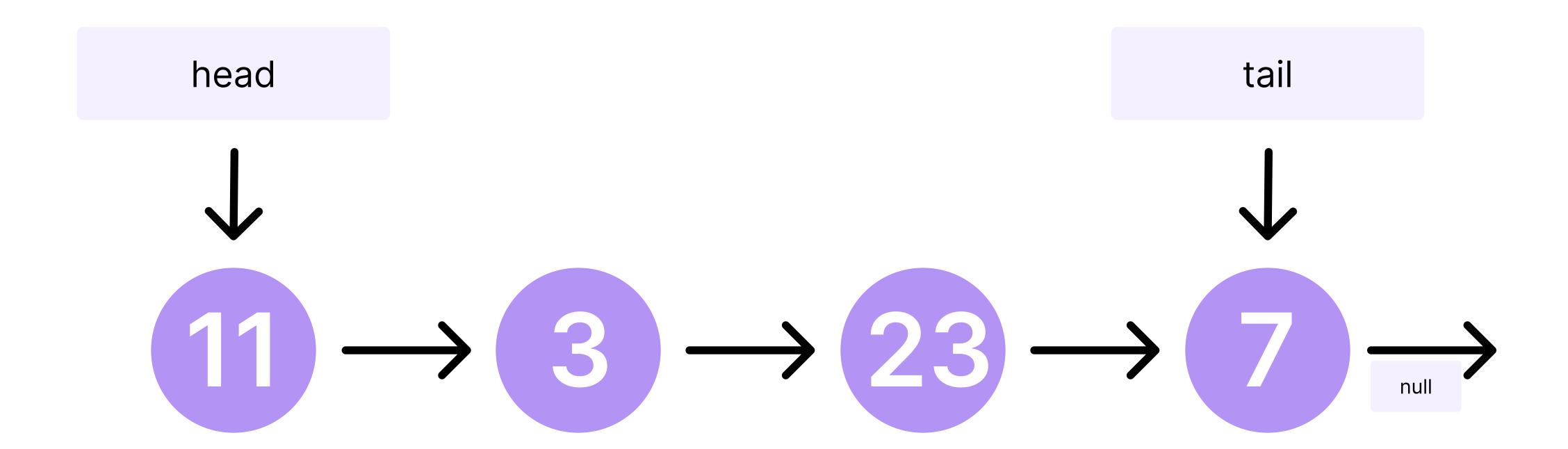


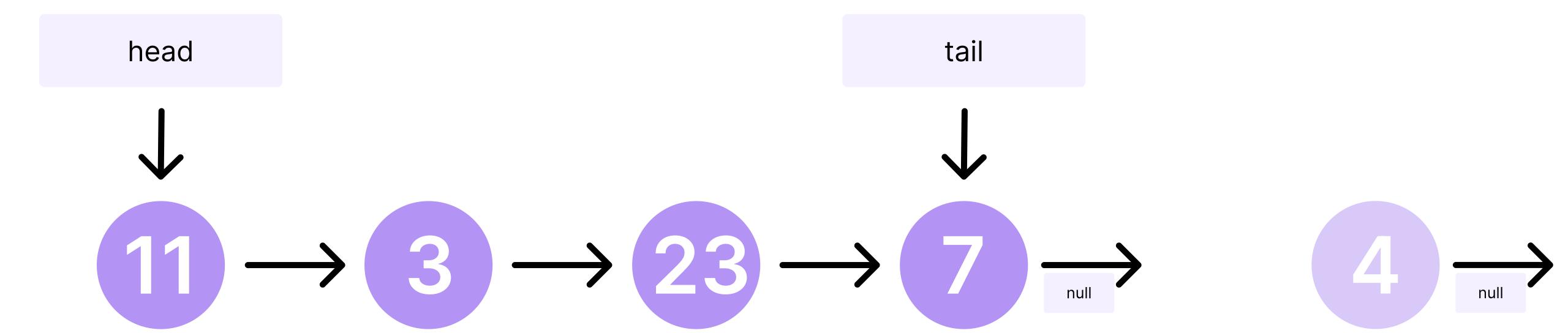
O(n)

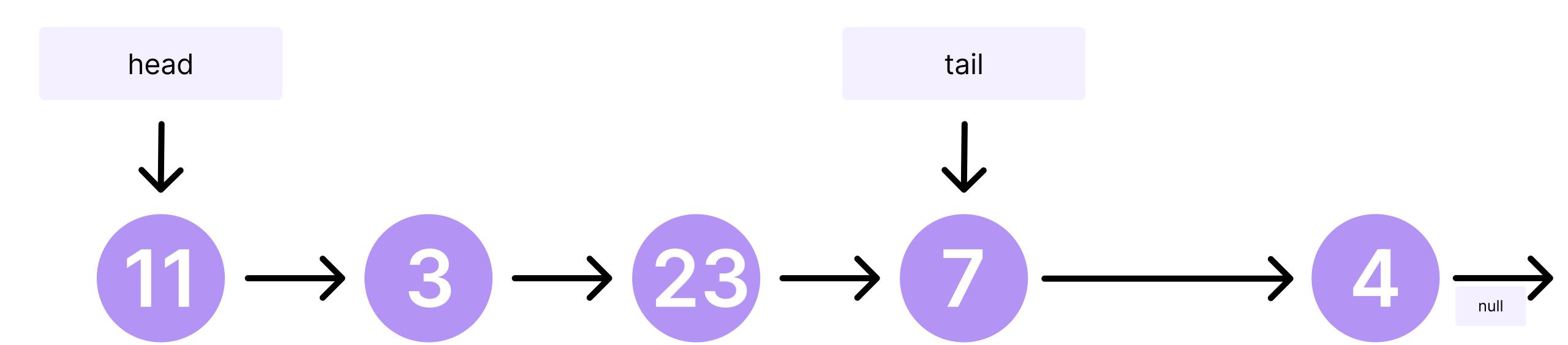
| | Linked Lists | Arrays |
|-----------------|--------------|--------|
| Push | O(1) | O(1) |
| Pop | O(n) | O(1) |
| Shift | 0(1) | O(n) |
| Unshift | 0(1) | O(n) |
| Insert | O(n) | O(n) |
| Delete | O(n) | O(n) |
| Lookup by Index | O(n) | O(1) |
| Lookup by Value | O(n) | O(n) |

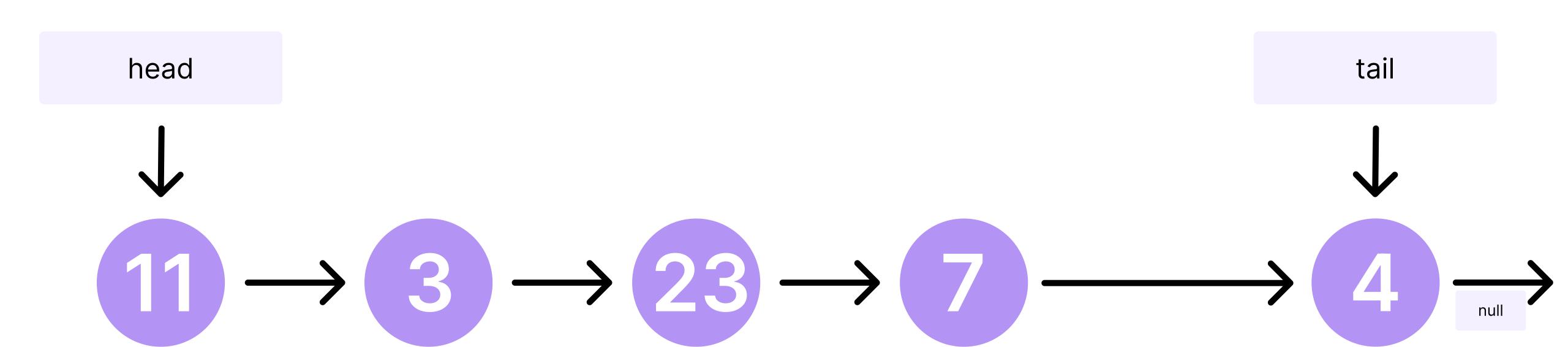






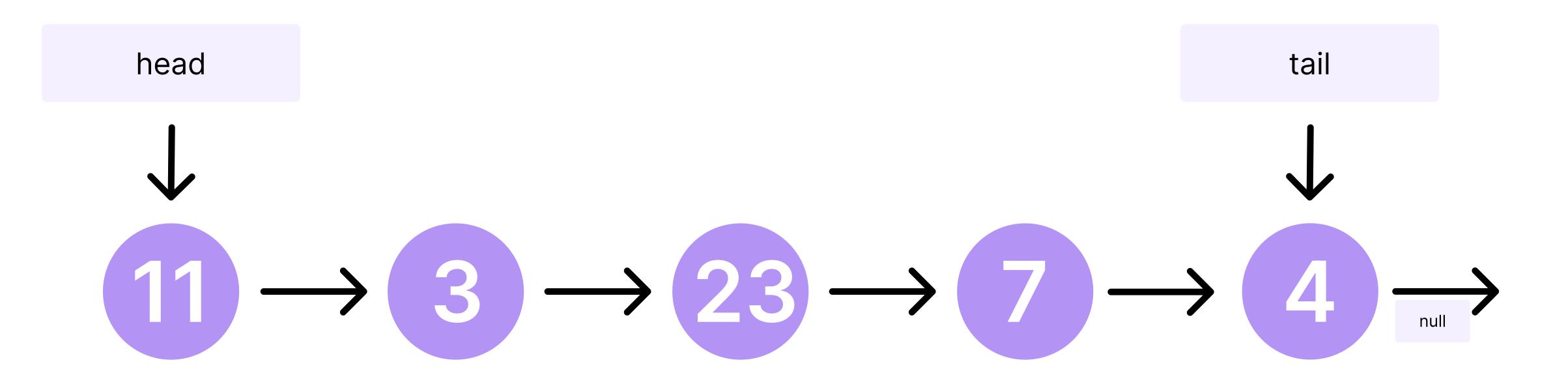




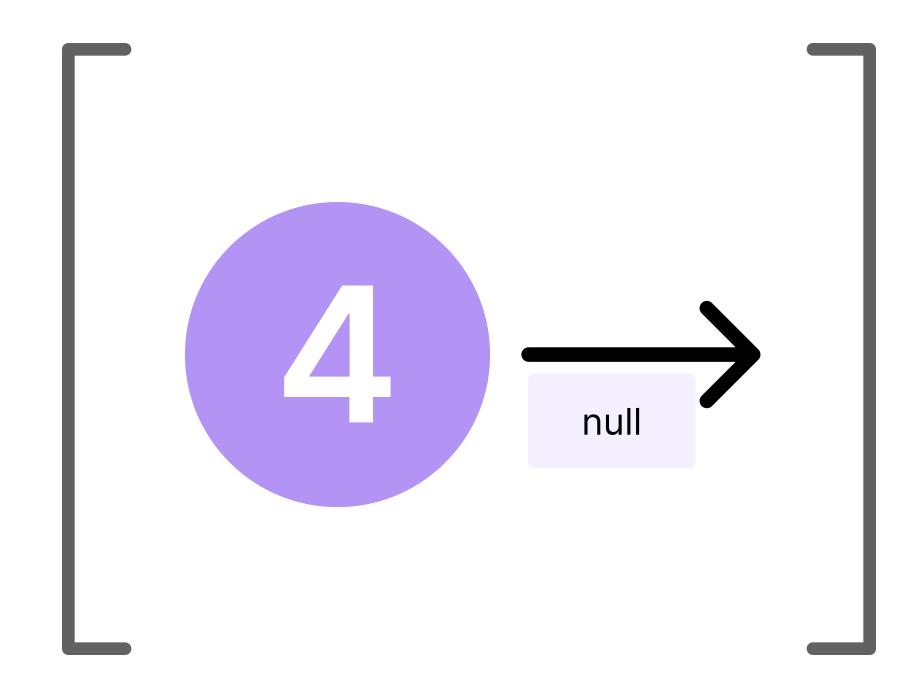


LINKED LISTS

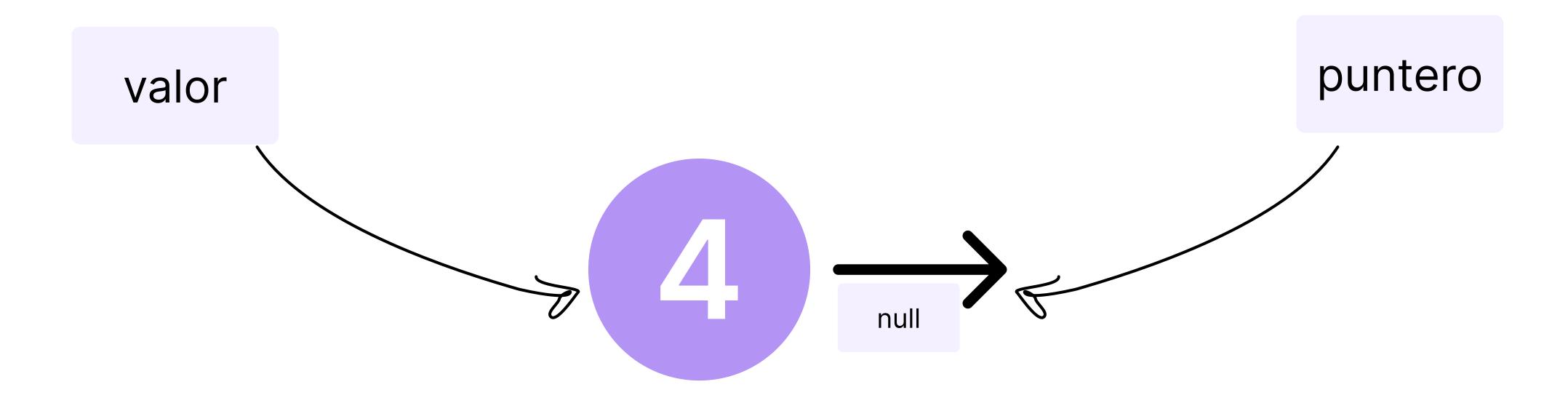
agregar un elemento

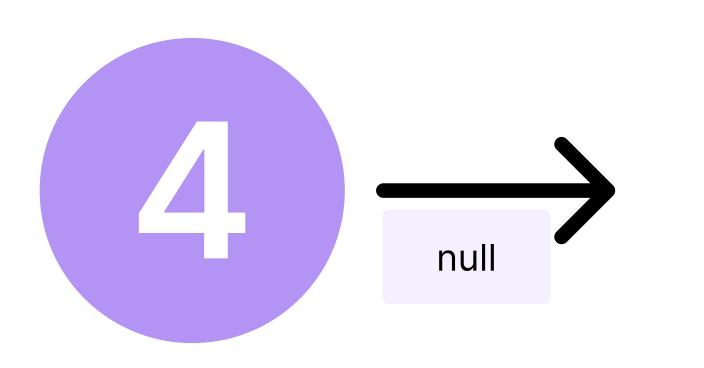




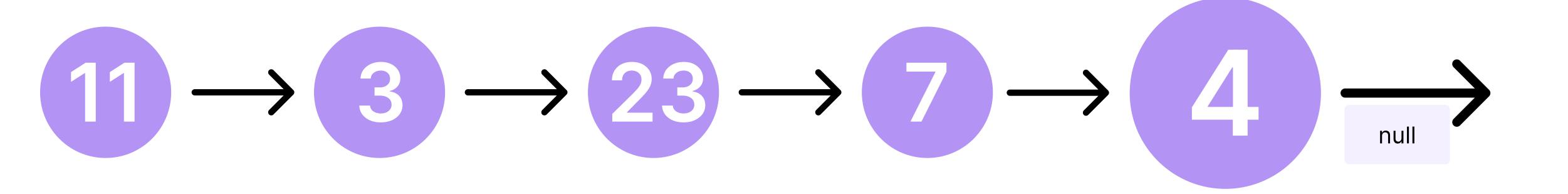


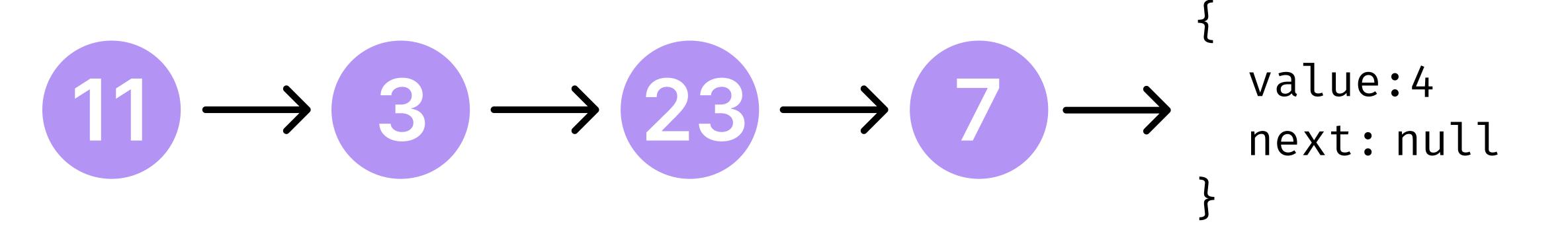
NODO

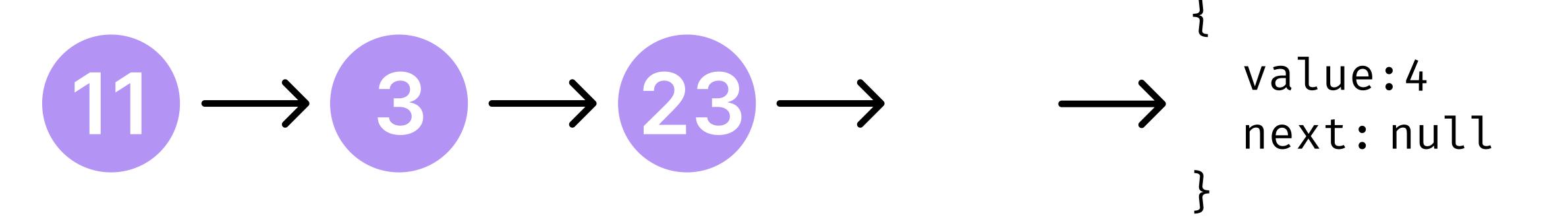


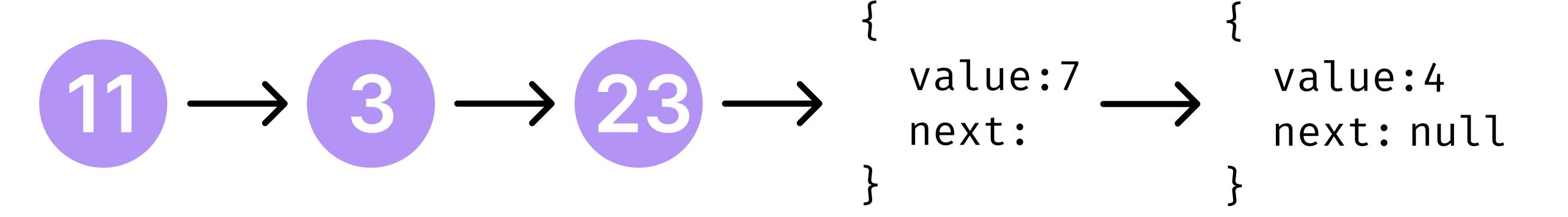


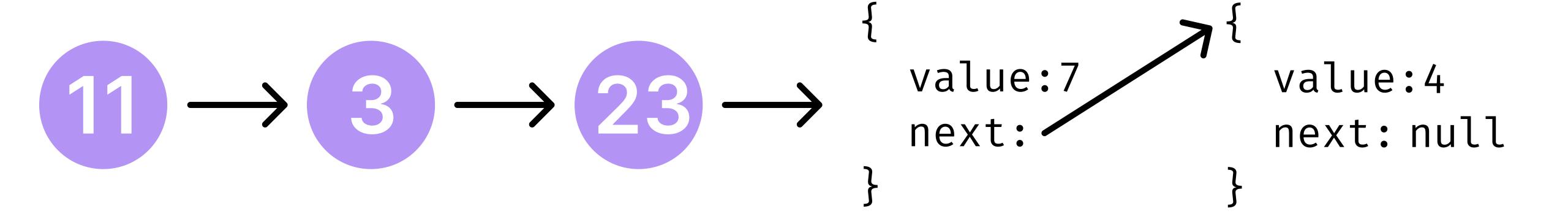
```
{
  value:4
  next: null
}
```











```
value:23
next: {
        value:7
        next: {
                value:4
                next: null
```

```
value:3
next: {
        value:23
        next: {
                value:7
                next: {
                        value:4
                        next: null
```

```
value:11
next: {
        value:3
        next: {
                 value:23
                next: {
                         value:7
                         next: {
                                 value:4
                                 next: null
```

```
class linkedlist {
  constructor(value) { ... }
}
```

```
class linkedlist {
  constructor(value) { ... }
  push(value) { ... }
}
```

```
class linkedlist {
  constructor(value) { ... }
  push(value) { ... }
  unshift(value) { ... }
}
```

```
class linkedlist {
  constructor(value) { ... }
  push(value) { ... }
  unshift(value) { ... }
  insert(value) { ... }
}
```

```
class linkedlist {
  constructor(value) { ... }
    crear un nuevo nodo
  push(value) { ... }
  unshift(value) { ... }
  insert(value) { ... }
}
```

```
class linkedlist {
  constructor(value) { ... }
    crear un nuevo nodo
  push(value) { ... }
    crear un nuevo nodo
    agregar nodo al final
  unshift(value) { ... }
  insert(value) { ... }
```

```
class linkedlist {
  constructor(value) { ... }
    crear un nuevo nodo
  push(value) { ... }
    crear un nuevo nodo
    agregar nodo al final
  unshift(value) { ... }
    crear un nuevo nodo
    agregar nodo al principio
  insert(value) { ... }
```

```
class linkedlist {
  constructor(value) { ... }
    crear un nuevo nodo
  push(value) { ... }
    crear un nuevo nodo
    agregar nodo al final
  unshift(value) { ... }
    crear un nuevo nodo
    agregar nodo al principio
  insert(value) { ... }
    crear un nuevo nodo
    insertar nodo
```

```
class linkedlist {
  constructor(value) { ... }
    crear un nuevo nodo
  push(value) { ... }
    crear un nuevo nodo
    agregar nodo al final
  unshift(value) { ... }
    crear un nuevo nodo
    agregar nodo al principio
  insert(value) { ... }
    crear un nuevo nodo
    insertar nodo
```

```
crear un nuevo nodo crear un nuevo nodo crear un nuevo nodo crear un nuevo nodo
```

```
class linkedlist {
  constructor(value) { ... }
  push(value) { ... }
  unshift(value) { ... }
  insert(value) { ... }
   insertar nodo
}
```

```
class Node {
class linkedlist {
  constructor(value) { ... }
  push(value) { ... }
  unshift(value) { ... }
  insert(value) { ... }
    insertar nodo
```