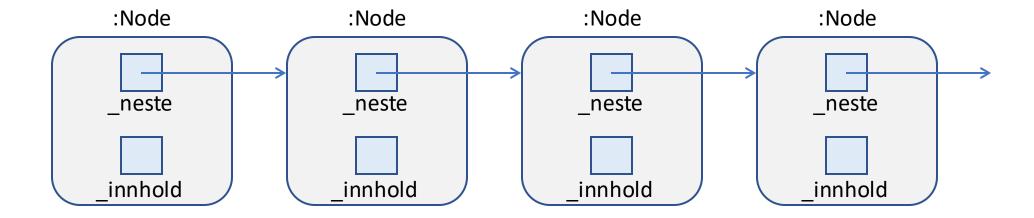
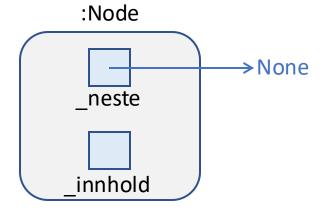
Datastrukturtegninger

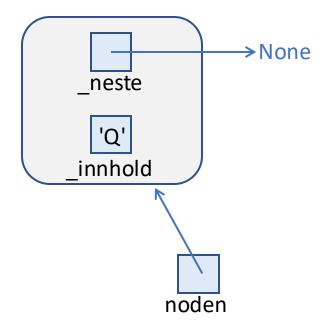
Tilstandsdiagrammer

Illustrert på et eksempel med lenkelister



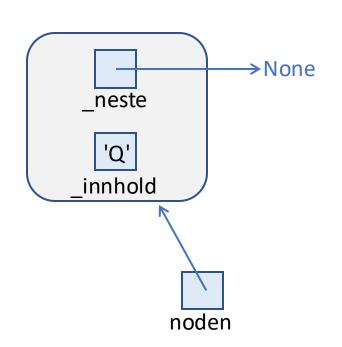


```
class Node :
    def __init__(self, nytt) :
        self._innhold = nytt
        self._neste = None
```



```
class Node :
    def __init__(self, nytt) :
        self._innhold = nytt
        self._neste = None
```

```
noden = Node("Q")
```

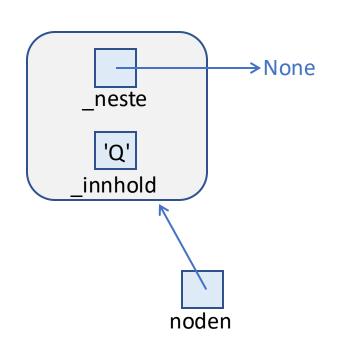


```
class Node :
    def __init__(self, nytt) :
        self._innhold = nytt
        self._neste = None
```

3.14 pi

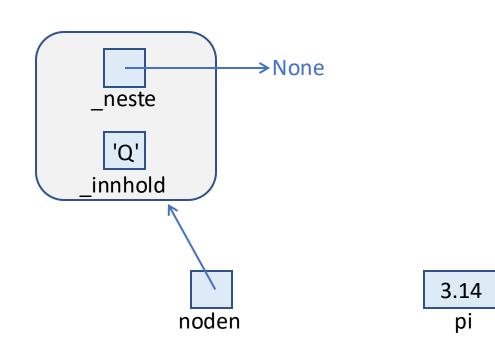
3.14

рi



```
class Node :
    def __init__(self, nytt) :
        self._innhold = nytt
        self._neste = None
```

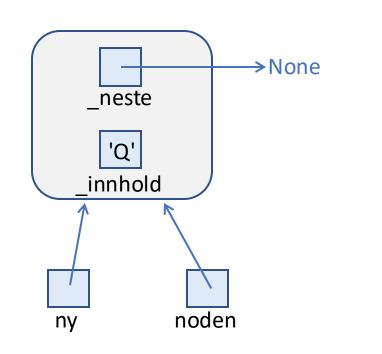
```
pi = 3.14
noden = Node("Q")
```



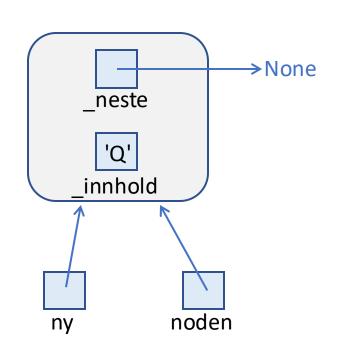
```
ny = noden
tall = pi
noden._neste = Node('A')
noden = noden._neste
t = ny._innhold
```

3.14

рi

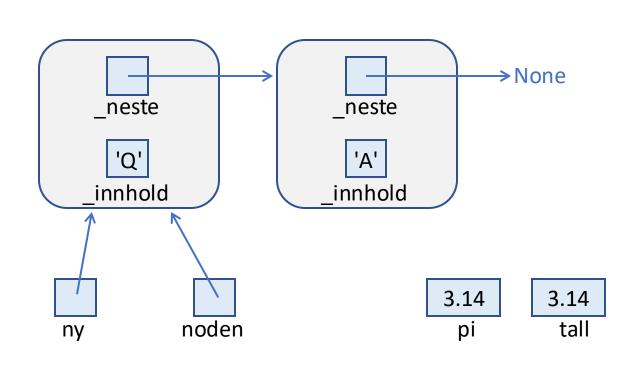


```
ny = noden
tall = pi
noden._neste = Node('A')
noden = noden._neste
t = ny._innhold
```

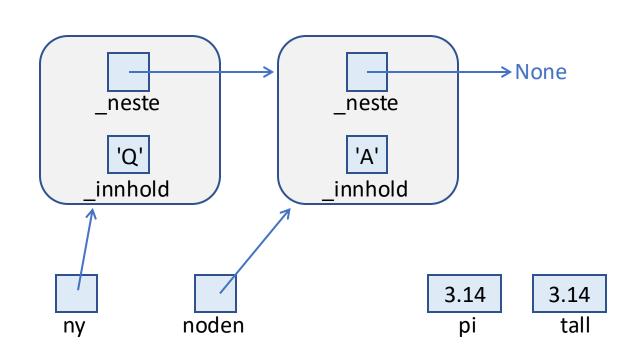


```
ny = noden
tall = pi
noden._neste = Node('A')
noden = noden._neste
t = ny._innhold
```

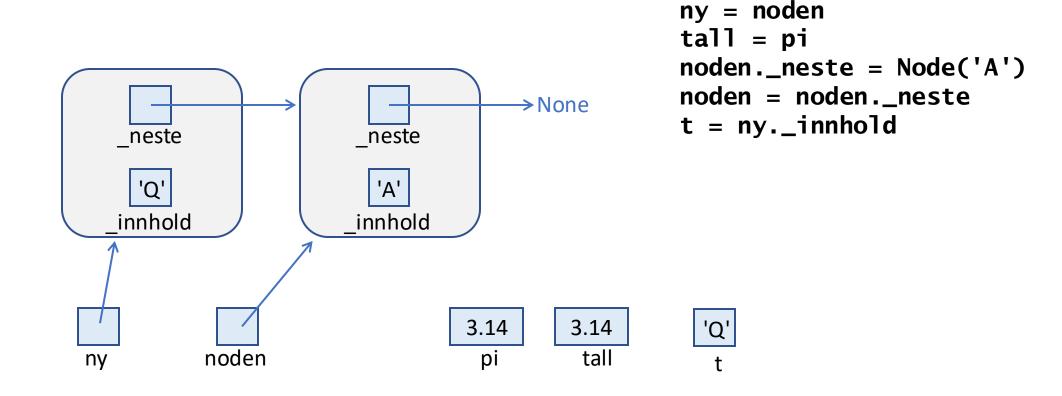
3.14 3.14 pi tall

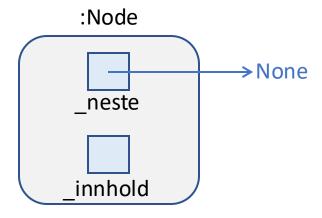


```
ny = noden
tall = pi
noden._neste = Node('A')
noden = noden._neste
t = ny._innhold
```

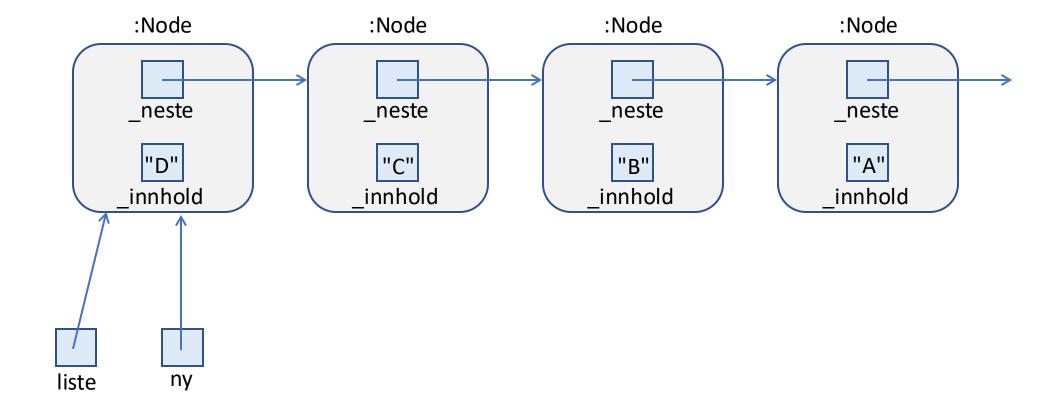


```
ny = noden
tall = pi
noden._neste = Node('A')
noden = noden._neste
t = ny._innhold
```

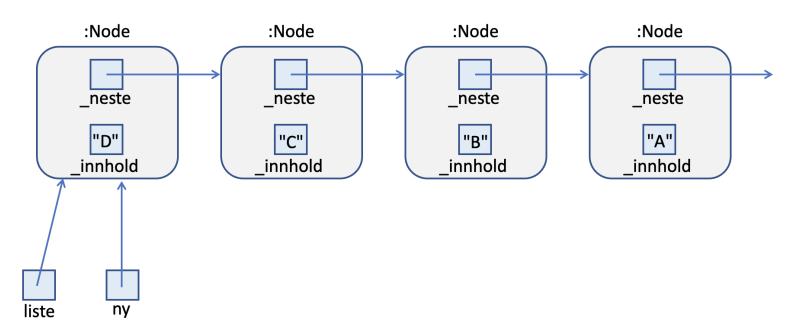


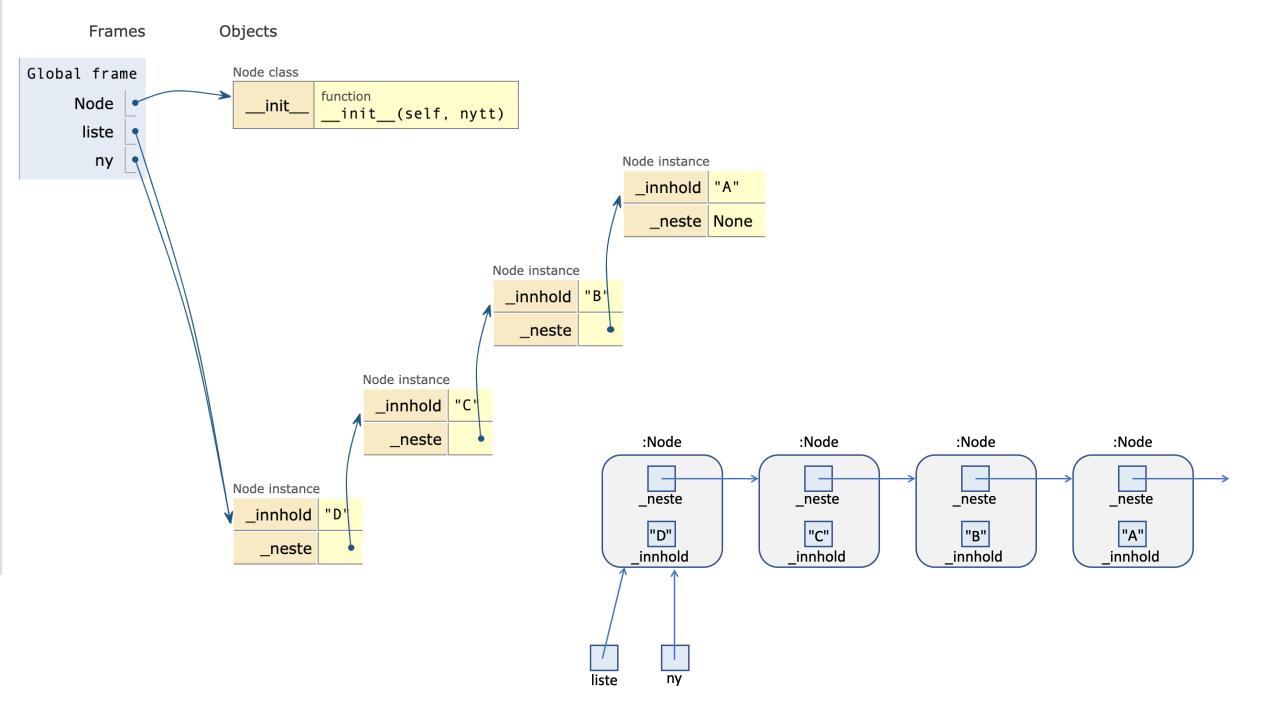


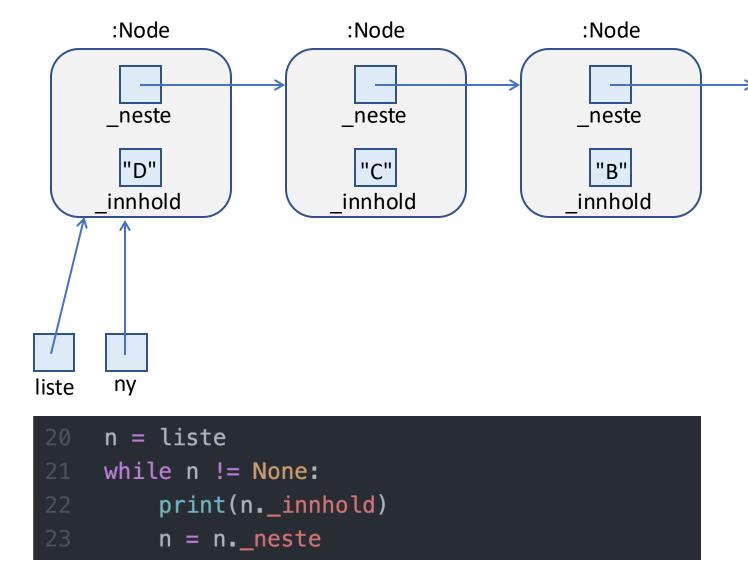
```
class Node :
        def __init__(self, nytt) :
            self._innhold = nytt
            self._neste = None
    liste = None
    ny = Node("A")
    ny._neste = liste
    liste = ny
    ny = Node("B")
   ny._neste = liste
12 liste = ny
    ny = Node("C")
    ny._neste = liste
15 liste = ny
16 ny = Node("D")
17 ny._neste = liste
18 liste = ny
```



```
class Node :
        def __init__(self, nytt) :
            self._innhold = nytt
            self._neste = None
    liste = None
    ny = Node("A")
    ny._neste = liste
    liste = ny
    ny = Node("B")
    ny._neste = liste
    liste = ny
    ny = Node("C")
    ny._neste = liste
    liste = ny
    ny = Node("D")
    ny._neste = liste
18 liste = ny
```





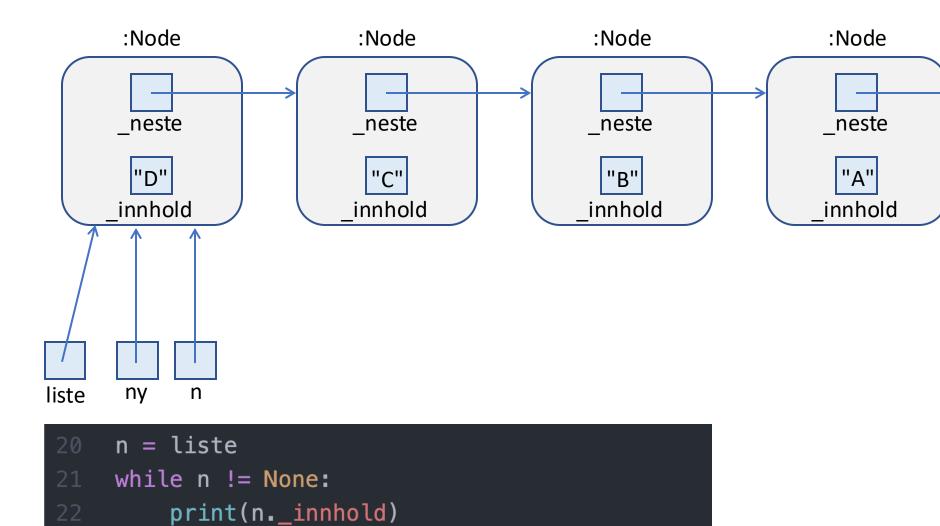


:Node

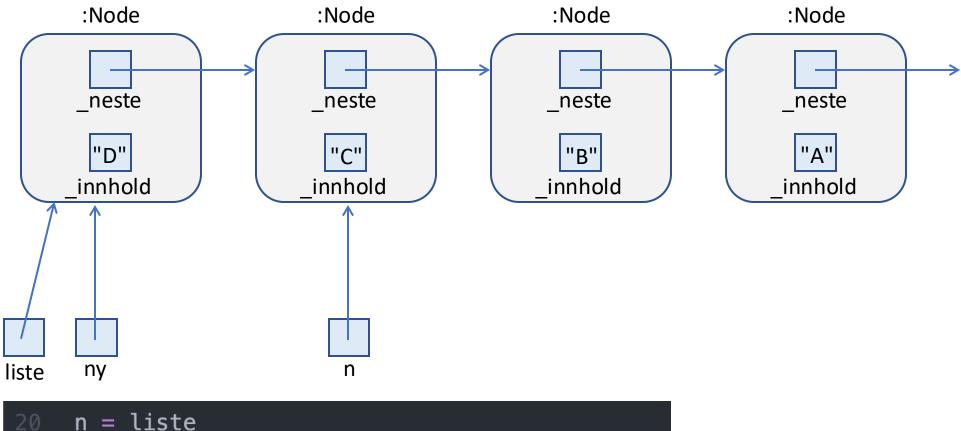
_neste

"A"

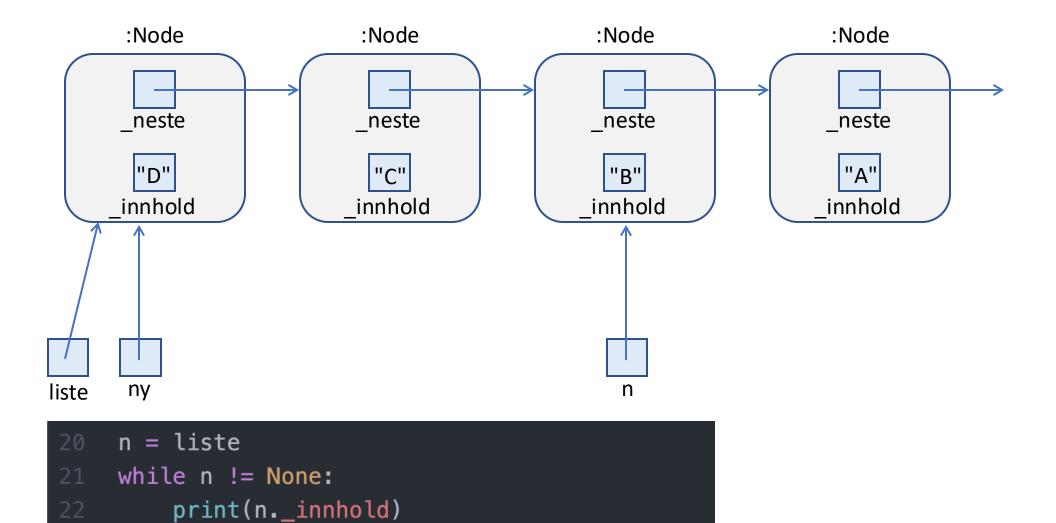
_innhold



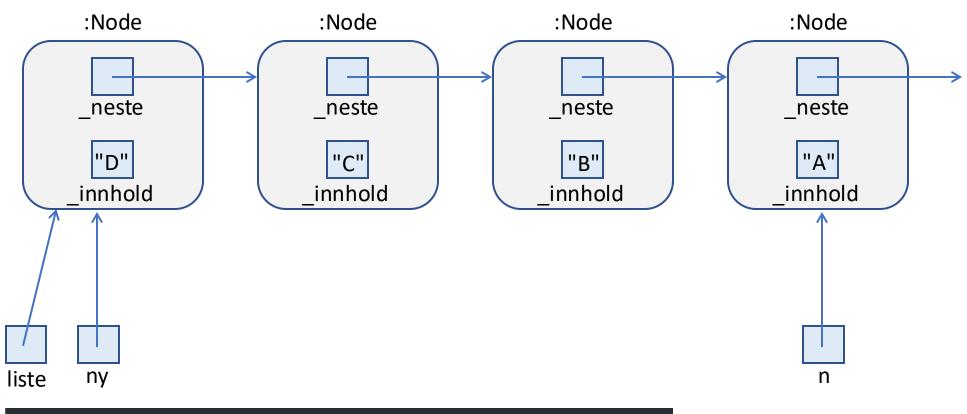
n = n._neste



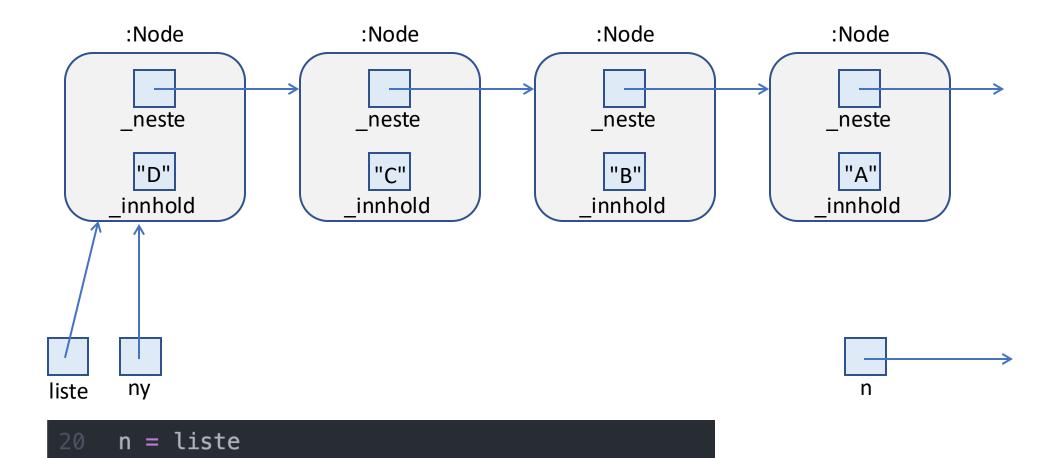
```
20  n = liste
21  while n != None:
22    print(n._innhold)
23    n = n._neste
```



n = n._neste



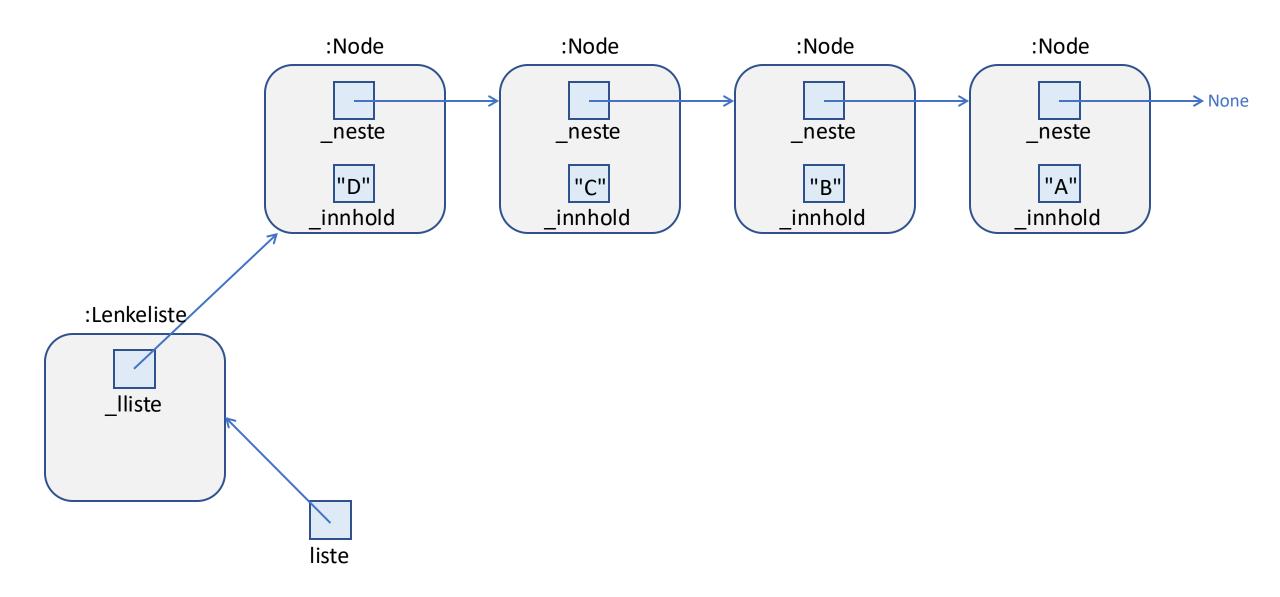
```
20  n = liste
21  while n != None:
22    print(n._innhold)
23    n = n._neste
```

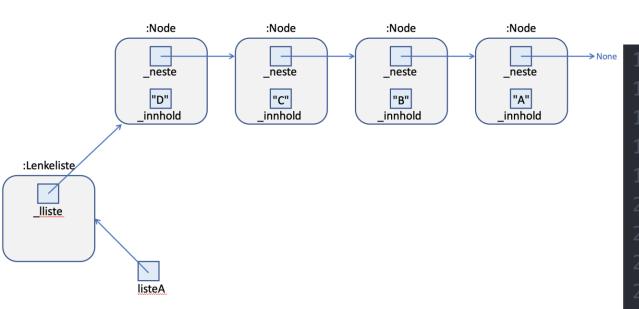


while n != None:

print(n._innhold)

n = n._neste





```
class Node:
   def __init__(self, nytt) :
        self._innhold = nytt
        self._neste = None
   def settNeste (self, ny) :
        self._neste = ny
   def neste (self):
        return self._neste
   def hentData (self) :
        return self. innhold
```

```
15 v class Lenkeliste:
        def init (self) :
            self._lliste = None
        def push(self, innhold):
            ny = Node(innhold)
            ny.settNeste(self._lliste)
            self._lliste = ny
        def pop(self):
            ut = self._lliste.hentData()
            self._lliste = self._lliste.neste()
            return ut
        def ikkeTom(self):
            return self._lliste != None
    listeA = Lenkeliste()
33 v for tegn in 'ABCD':
        listeA.push(tegn)
36 v while listeA.ikkeTom():
        print(listeA.pop())
```