



↳ ATTR: NEXT, ITEM

LINKED LIST

↳ ATTR: _first

BASIC PYTHON LIST PATTERN

① $i = 0$ # POSITION OF THE ITERATEE

```
while i < len(LST):
```

→ ... LST [i] ...

$\rightarrow \quad i = i + 1$

② CURR = LST_FIRST # REFERENCE VARIABLE
NO MORE CHANGE.

WHILE CUBR IS NOT NOVICE:

000 CUBER ITEM 000

$$CRR = WRR \cdot NEX \uparrow$$

```
def __str__(self):
```

RETURNING A STRING REPRESENTATION OF THE LIST
RESULTS " "

OVER = SELF-FIRST

WHILE EVER IS NOT MONT.

RESULT + 872 (comp. 1780)

EURE - w3R: NEX7

TO MAKE THE _STR_ REPRESENTATION UNAMBIGUOUS,
TAKE ITEM_STR = [] AND APPEND (STR(CURR.ITEM))

DEF _GETITEM_ (SELF, INDEX) :

""" LOOP AND STOP WHEN THE WANTED ITEM IS FOUND """

i = 0

WHILE CURR IS NOT None AND i < INDEX :

...

STOP WHEN EITHER CURR IS None

OR i == INDEX