List Slicing :

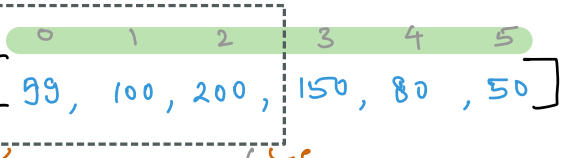
Agenda :

- List slicing
- Some questions on list
- Recap taking list as input (list slicing)

★ **List Slicing :**

↳ Slicing : getting a portion of our object.

→ runs = [99, 100, 200, 150, 80, 50]



↳ I want to slice this part

essentials for slicing : start index end index

★ Syntax of list slicing :

↳ runs [index] : accessing a single element

→ runs [start : end : jump]

start is included
end is excluded
jump is to traverse

Guidelines :

→ By default start is : 0th index
→ By default end is : len(list)
→ By default jump is : +1

→ runs = 0 1 2 3 4 5 [99, 100, 200, 150, 80, 50]

i) runs [start : end] # jump = 1

Q) runs [:]

by default start = 0th
by default end = len(runs)

→ runs [0 : 6] ⇒ [99, 100, 200, 150, 80, 50]
(0 1 2 3 4 5)

→ runs [0 : 6] ⇒ same list

→ runs [2 : 4] ⇒ [200, 150]

→ runs = [99, 100, 200, 150, 80, 50]
(0 1 2 3 4 5)

ii) runs [: :]

↳ start ⇒ 0th
↳ end ⇒ len(runs)
↳ jump ⇒ + 1

→ runs [start : end : jump]

→ runs [0 : 6 : +1] # Same list.

→ runs = [99, 100, 200, 150, 80, 50]

0 1 2 3 4 5

-6 -5 -4 -3 -2 -1

-ve indexes also are indexes corresponding to +ve indexes

0 → -6
1 → -5
2 → -4

☆ -ve jump

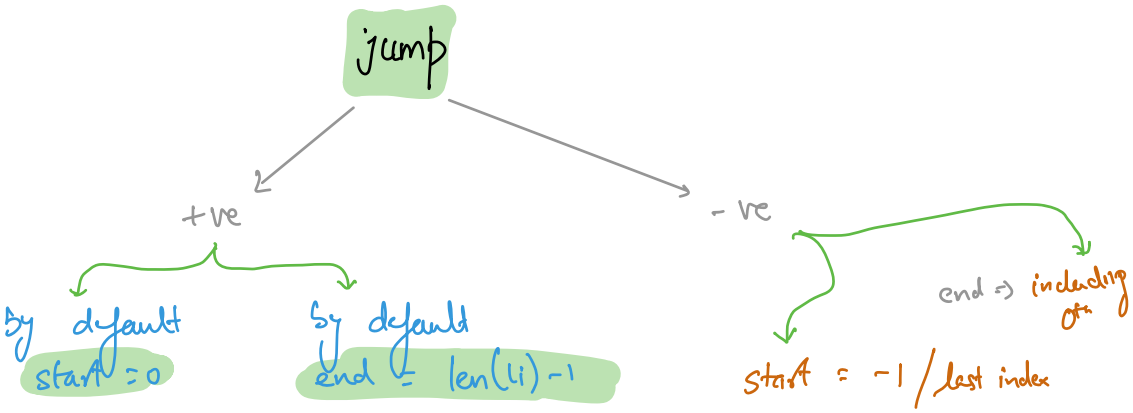
→ runs = [99, 100, 200, 150, 80, 50]

0 1 2 3 4 5

-6 -5 -4 -3 -2 -1

⇒ runs [0 : 2 : -1] # contradict^n

Ans = [] # empty list


jump
+ve
-ve
by default
start = 0
by default
end = len(li) - 1
start = -1 / last index
end => including