

List Slicing Iterations

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

1) A[3:6]=[99,100]

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

A=[0, 1, 2, 99, 100, 6, 7, 8, 9] →(replace values)

2) A[6:3]=[99,100] → backward tracing (not permissible)

It will append the value at 6th position

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

A=[0, 1, 2, 3, 4, 5, 99, 100, 6, 7, 8, 9]

3) A[-8:5]=[99,100]

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

A=[0, 1, 99, 100, 5, 6, 7, 8, 9] →(replace values)

4) A[-3:2]=[99,100] →backward tracing (not permissible)

It will append the value at -3rd position

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

A=[0, 1, 2, 3, 4, 5, 6, 99, 100, 7, 8, 9]

5) $A[4:-2]=[99,100]$

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

$A=[0, 1, 2, 3, 99, 100, 8, 9] \rightarrow$ (replace values)

6) $A[4:-8]=[99,100] \rightarrow$ backward tracing (not permissible)

It will append the value at 4th position

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

$A=[0, 1, 2, 3, 99, 100, 4, 5, 6, 7, 8, 9]$

7) $A[-8:-3] = [99,100]$

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

$A= [0, 1, 99, 100, 7, 8, 9] \rightarrow$ (replace values)

8) $A[-3:-8]=[99,100] \rightarrow$ backward tracing (not permissible)

It will append the value at -3rd position

Forward index	0	1	2	3	4	5	6	7	8	9
List A=	0	1	2	3	4	5	6	7	8	9
Backward index	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

$A=[0, 1, 2, 3, 4, 5, 6, 99, 100, 7, 8, 9]$