List Slicing

Agenda

- map function
- List slicing
- Reverse of an array

map() function

List slicing

To extract some portion/slice out of your list



end is excluded

[1,2,3,5]

$$a = \begin{bmatrix} 10 & 20 & 30 & 40 & 50 & 60 & 70 \end{bmatrix}$$

or 1 2 3 4 5 6

start end

a $\begin{bmatrix} 1 & 6 & 2 \end{bmatrix}$

start and step $\begin{bmatrix} 20 & 40 & 60 \end{bmatrix}$

Break till 10:05 PM

nums =
$$\begin{bmatrix} 1,1,2,3,5 \\ 1 \end{bmatrix}$$

start

 $\begin{bmatrix} 1,2,3,5 \end{bmatrix}$
 $\begin{bmatrix} 1,2,3,5 \end{bmatrix}$
 $\begin{bmatrix} 1,2,3,5 \end{bmatrix}$

Default values

step = 1

the step

> start = 0

> end = length of list

 $a = \begin{bmatrix} 5, 9, 8, 6, 2, 1, 3 \end{bmatrix}$

a [: 4] = [S, 9,8,6]

start = 0

a[3:] = [6, 2, 1, 3]ende 7

(length of the)
List

$$numS = \begin{bmatrix} 1,1,2,3,5 \\ 1 \end{bmatrix}$$
 $rac{1}{2}$
 $rac{1}{3}$
 $rac{1}{3}$

$$a[2:-2]$$
 = $[20, 40]$
 $a[-5:4]$ = $[20, 30, 40]$
 $a[1:4]$
 $a[-5:-2]$

Nums =
$$\begin{bmatrix} 1 & 1 & 2 & 3 & 5 & 8 & 13 \end{bmatrix}$$

 $\begin{bmatrix} 0 & 1 & 2 & 3 & 5 & 6 \\ -7 & -6 & -5 & -4 & -3 & -2 & -1 \end{bmatrix}$
Start end

nums
$$\begin{bmatrix} -S:-2 \end{bmatrix} = \begin{bmatrix} 2,3,5 \end{bmatrix}$$

$$a[3::-1] = 40,30,20,10$$

$$a = \begin{bmatrix} 10, & 20, & 30, & 40, & 50 \end{bmatrix}$$
 $e^{i}d$
 $a \begin{bmatrix} :2:-1 \end{bmatrix} = 50, 40$
 $a \begin{bmatrix} :0:-2 \end{bmatrix} = \begin{bmatrix} 50, 30 \end{bmatrix}$

$$\begin{bmatrix}
2,4,5,7,8
\end{bmatrix}$$

$$\begin{bmatrix}
2,4,5,7,8
\end{bmatrix}$$

$$\begin{bmatrix}
2,4,5,7,8
\end{bmatrix}$$

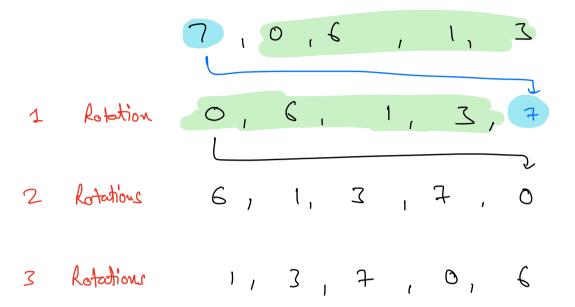
$$\begin{bmatrix}
3,7,8
\end{bmatrix}$$

$$L[::-2]$$

$$Step = -2$$

$$R to 1$$

Rotate Array



$$a = \frac{7}{a[:3]}$$
 $a = \frac{3}{a[:3]}$

Doubts

Thank You

Competitive Programming

Very advanced OSA (Sport for OSA)

- -) Codeforces.com
- s codechef.com

Cood Night Thank You

Friday