

## Lists Continued:

⇒ Read nice books, play any challenging physical sport, be forgiving (let it go!!)

⇒ Deep work, Atomic habits, Who will cry when you'll die (Robin Sharma).

### Topics for today:

- i) Warm-up problem
- ii) Taking list as input
- iii) More operations on list
- iv) Linear Search

i \* \* \* 2  
⇒ i \* i

### \* Taking list as input:

⇒ N # size of list

⇒  $A[0], A[1], A[2], \dots, A[N-1]$  # list

⇒ 3

⇒ 2 ● 5 ● 7

⇒  $N = \text{int}(\text{input}())$  # size of list  
 $x = \text{input}()$

⇒ `split()` method

⇒ `"2 4 5".split()`

⇒ `['2', '4', '5']`

★ Updating a list using index :

⇒  $l = [2, 5, 9, 3, 8]$

⇒  $l[0] = 21$

$l = [21, 5, 9, 3, 8]$

⇒  $l[1] = l[0]$

⇒  $l = [21, 21, 9, 3, 8]$

★ Swapping :

$\Rightarrow$   $\text{runs} = [2, 5, 9, 8, 7]$

index  $\Rightarrow$  0 1 2 3 4  
-1

$\text{runs}[0], \text{runs}[-1] = \text{runs}[-1], \text{runs}[0]$

$\Rightarrow \text{runs} \Rightarrow [7, 5, 9, 8, 2]$