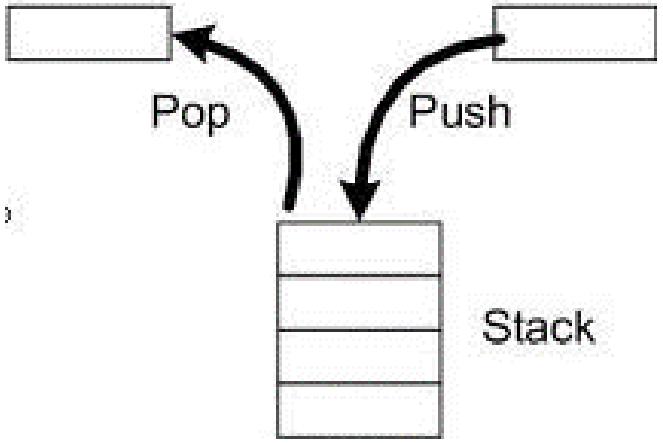
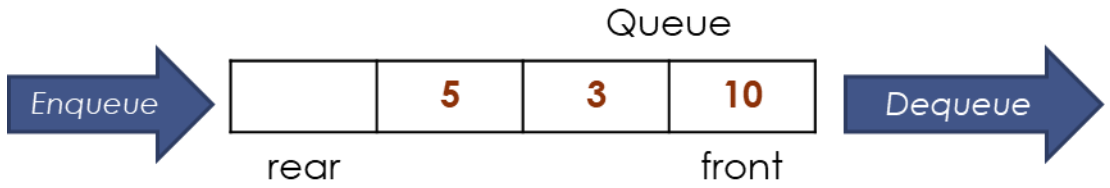
Part1
Linear Structure vs Non-linear Structure

Linear Structure





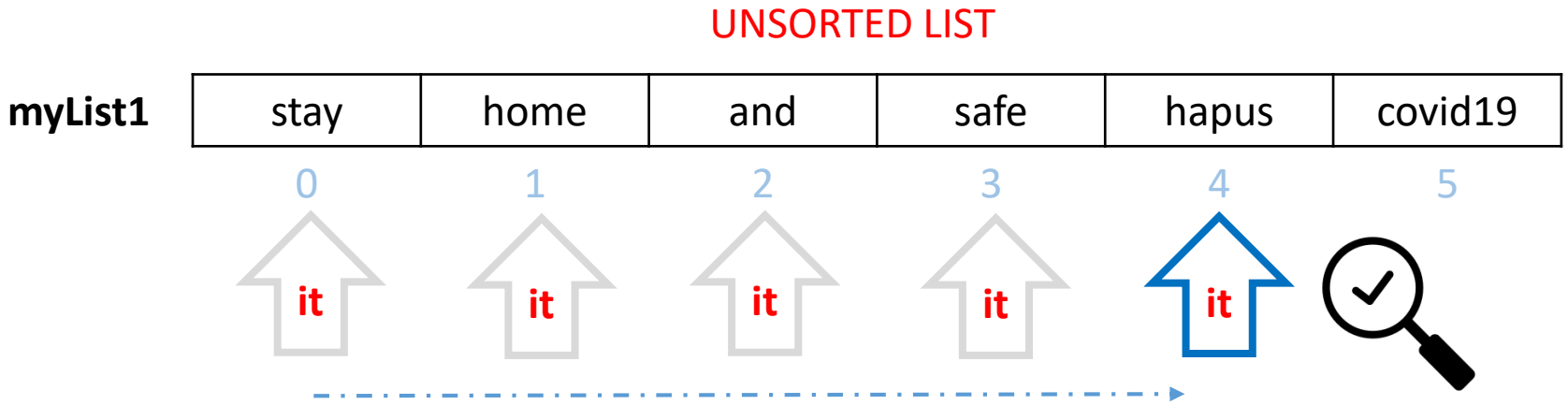
myList

11	99	0	55	5	14	89	23	7	1	10
0	1	2	3	4	5	6	7	8	9	10

List : Linear Structure

- searching for a certain text will take a **linear time**.

  input sentences: “stay home and safe. hapus covid19”

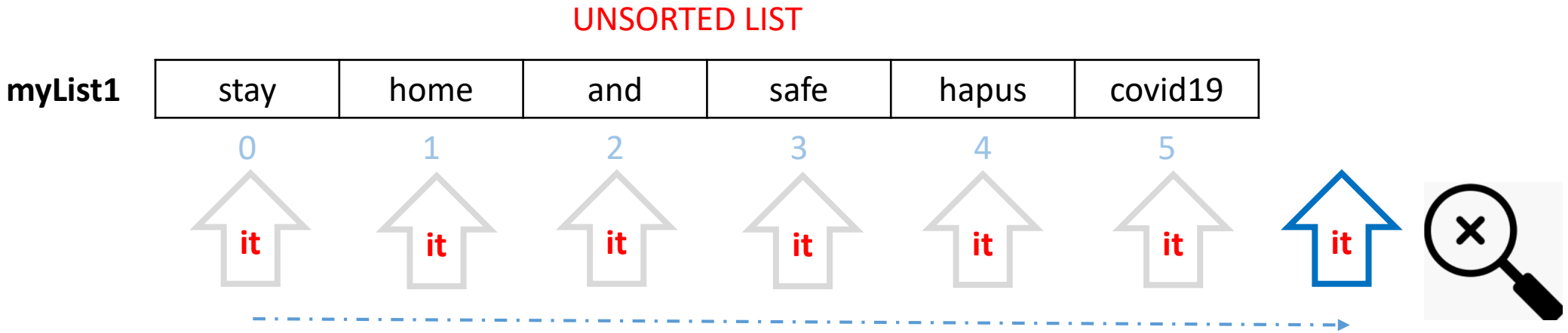


- Search : “**hapus**”, “**distancing**” from **myList1**

List : Linear Structure

- searching for a certain text will take a **linear time**.

  input sentences: “stay home and safe. hapus covid19”

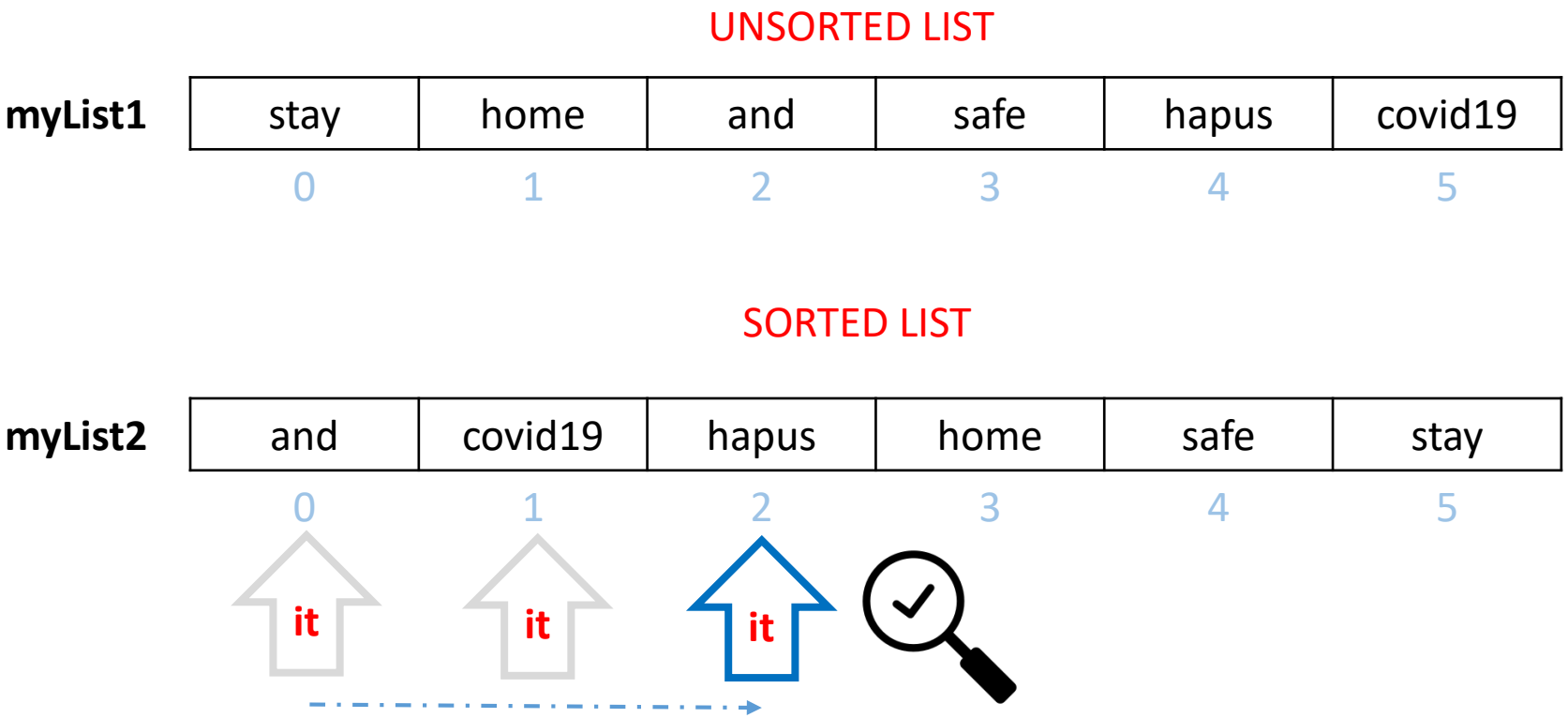


- Search : “**Hapus**”, “**distancing**” from **myList1**

List : Linear Structure

- searching for a certain text will take a **linear time**.

  input sentences: “stay home and safe. hapus covid19”



- Search : “**hapus**”, “**distancing**” from **myList1, myList2**

List : Linear Structure

- searching for a certain text will take a **linear time**.

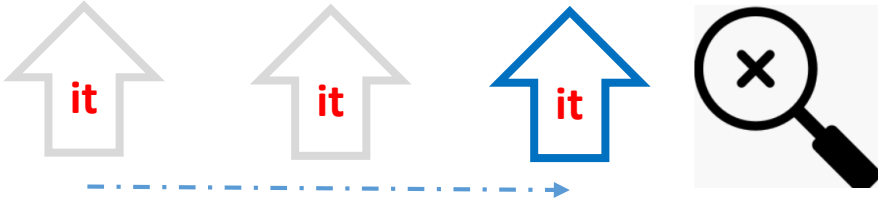
  input sentences: “stay home and safe. hapus covid19”

UNSORTED LIST

myList1	stay	home	and	safe	hapus	covid19
	0	1	2	3	4	5

SORTED LIST

myList2	and	covid19	hapus	home	safe	stay
	0	1	2	3	4	5



- Search : “**hapus**”, “**distancing**” from **myList1, myList2**

Binary Search Tree : Non-Linear Structure

- Binary Search Tree - Improve searching **time** from Linear Structure
  - **reduce half** of the searching time.

- What is ***Binary Search Tree***???