

## Lists in Python



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* Examples
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-> numbers = [10, 20, 30, 40, 50] - List of Integer

-> fruits = ["apple", "banana", "cherry"]
List of strings

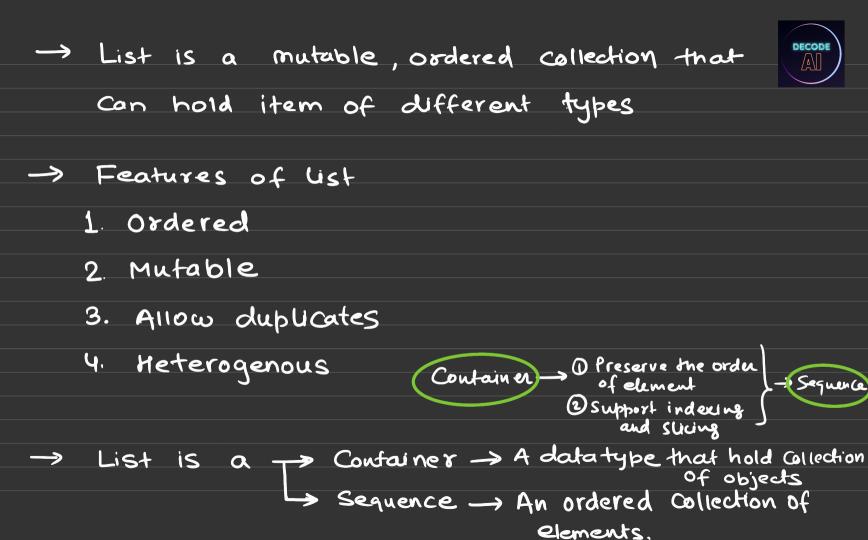
-> bools = [True, False, True, False]

-> temperatures = [36.5, 37.0, 36.4]

List of float

-> mixed = [101, "Alice", True, 99.5] -> only Primitive

-> employee = ["John", 32, 5.8, True, ["Python", "C++"]] Ly nested list



A data=[10,5.6,4,2]

Q. How is this Stored?

-> data is a list containing heterogenous numeric

types

[10, 5.6, 4, 2]

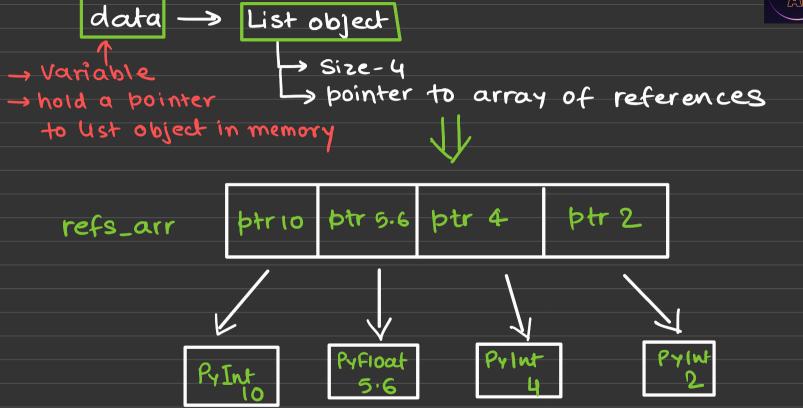
int float int

-> Python list are array of references (pointers) to python objects

-> The list object data is stored somewhere in memory.







\* Indexing



$$data = \begin{bmatrix} 2, 5, 6, 10, 12, 15 \end{bmatrix}$$

$$idx \rightarrow 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5$$

$$\rightarrow -6 \quad -5 \quad -4 \quad -3 \quad -2 \quad -1$$

