

C++ STLs

"Like a Boss"





Comparators



- It is a function or an object that is used to compare elements.
- O Used to decide the order of elements inside a Data Structure. (vector, set, map, heap)

They can be implemented in different ways:

Function Pointers - A function that implements the logic of comparison.

Example \rightarrow Sout() Vector <int> $\forall ec = \{3, 2, 1, 6\}$

· Sout (vec.begin(), vec.end()); // Default ASC

Sovet (vec.begin(), vec.end(), my comparator);

bool iny Comparator (int a, int b)

i) (a > b) return True;

return False;

Function Objects (Functions):
An object that can be treated as a function.

Example > Sort() \(\)

Vector \(\)

Example
$$\rightarrow$$
 Sout()
Vector $\langle inf \rangle$ Vec = $\{3, 2, 1, 6\}$

ا مندس دهن

vec = { ... } \rightarrow inf $\chi = 3;$ inf y = 4; unor-map mp; Sort (begin (vet), end (vec) [m]] (inta, int) y auto my Lamba = [] (inf a, inf b) { return a>b; Sort (begin (vec), end (vec), mylambda);