APCO
Date: 256

23/9/23 Custom Comparator

C++ → STL

↳ sort ()

Vector → sort (v.begin (), v.end ());

array → sort (a, a+n)

sort (v.begin(), v.end(), custom fun) which tells what this fun have to do

mycom(int a, int b) {
return a>b → Decreasing
return a<b → Increasing
}

Vector of vector → 2-D vector

[[4, 44], [1, 55], [3, 22]
[4, 11], [5, 33]]

Sort on the basis of 2nd element on vector

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0 -> [1,44]
1 -> [1, 55]
2 -> [3, 22]
3 -> [4, 11]
4 -> [5, 33]

Sort by 1st Index

-> [4,11], [3,22], [5,33], [1,44], [1,55]

-> sort(v.begin(), v.end());

By Default a[0] < b[0]

[1,44], [1,55], [3,22], [4,11], [5,33]

-> 1st Compare 0th Index -> if they are equal then compare 1st Index

-> sort(v.begin(), v.end(), mycomp);

bool mycomp (vector<int> &a, vector<int> &b){
return a[1] > b[1]; -> desc
return a[1] < b[1]; -> asc
}

a[i] < b[i]	a[0] < b[0]	a[0] > b[0]	a[1] > b[1]
[4,11]	[1,44]	[5,33]	[1,55]
[3,22]	[1,55]	[4,11]	[1,44]
[5,33]	[3,22]	[3,22]	[5,33]
[1,44]	[4,11]	[1,55]	[3,22]
[1,55]	[5,33]	[1,44]	[4,11]