CH SIL (Stondard Template Cibrary)

It is the Dibrary contains the pre-built containers

to note the programming ensier.

Like In Sorling, Dueus (2) Aterators 3) Algorithm (4) Furction (1) Container > Vector Vector is similar to array, but difference is away has the constant size (constant nature). Here Jeller gives le run-time charges indépendence Jector cint > vectore; size =0) · push or pull back) · at() 61 [] · Enplace back · Gort 1 back 1) vec. pushback (1) size copacity gets vec.pushbod((2) vec.pushback3 doubled whenever the copacity jets Vec. size () Vec. capacity

eplace back push back -> Pullback () remove clover from last. vectioner value) of vec. at (index-use) -) front > first element gast -> last element - vec (10,3) - Tobulation >vec {16,3,2,1,0} -) vec (vec2) · erase (costly (o(n)) · clear esare (vec. begjir ()) > posticulor number eraxe esare (startiend) - par L L/ not included Charges the size not the capacity V. insert (position, value) J. clar() -> deleter all the elevent

but the copacity remains some

J. empty -> checks whether the sector

is empty or not.

reid sec. begin() because it points not 1 begin Teraters sector Cirtzes iterator its for (itr= vec. beging; itr!=vec.end(); itr++)} cout cc "(itr) werde; for (duty) it = vec. spegin (); its! = vec. send; cost u * (it) · pushback · pullback (Rondon Access)
· pushfront · pullfront rot possible) -> List (doubly linked list) and all the vector functions as well. -> Deare (Doubly Ended Queue) All de some forction as above Dyranic Arroy (Rondon Access Possible) rectors Seowerfial List Containers Deave

Pair (Ulity library) poir cirtint 2p = { 1,5} Pifist or pisecond con be of different datotype).

Con be rested poir (pair juto poirs) pair cirt, pair char, int 77 p Can be of vector par as well sector a pair cint, int >> sec = Jec. Pushback (54,53) Injert pails recienplaceback (4,5) in-place objects create automatically Non-Seawerlial - Stack (Lost In First Out) push, explace, top, pop, size, exply, swop - ? Queve (Flist in First-Out) Similar functions as above in stacks Priority Quele (Max deop, Min leop) Con visualize as a stack Order Can be the charged using function like Greater priority givene citz q; priority alvere cirt, vector cirts (greafer cirts) a

Unique nof (key soone)

nof (string) int > M

M(key) = soone Turctions also applies save. fired found - Herbton

rolfound mend() Molli Mulli-Mops D (logr) Un-ordered up o(i) storer the data randomly replace (To 100) only 1 (cey value paix Stores the unique value and in souted form Some Function (lower_bound(4)) Here will return just sluce (4) upper-bound must be greater the the confusive

Typer of sels Chardered Set O(i) Mulfisels Randon Ordered Unsorted lowerbound X upperboard or Algoritha) Sort (orriorring) sort (vec. begin (), vec.end()) (arr, arren, greater cintal rector pair cintint >7 vec = \$ 5/3)13 Soff (vec. begir (), vec. end () (outo p: vec) Custom (2nd-value) bod Comparator (pair Cirt, int 2, pair cirt, int 2) if (Pl. second cp2. second) rehin the salse (pl. second >p2-second) else return salse True (pl. first 2p2. first) sort (vec. begin), vec. end(), co-paraler

2 (everse (sec.bogin(), secend())

fr a specific range
reverse (sec.begin()+V, sec.begin()+3)

great Pernstation
rest, pernstation (s.begin(), s.end(), Swalling, max Man & Min (eleverts) Binay Search () Count/Set Bits 326115 T000000000 not in oldel