							0	C s hines	0 perepar	general I unchina	mentber functions	Strings	Review:	Note Title	COL 100 Lectu	
											Vectors	0	Today:	13-09-2018	14 14	

Collection: Abstract ب Also celled collections Vector P 1 @/so چ Det. object ۲. celled حوم vector Vector that stones Types (ADTs) deta structu representing lists **5**5 "deta in C++STL (shandard kylle structure" deta

include "vector.h"

Vector < int >

type

Vector <sking>

13+ BA11 10; Vedor <: it > aa = } 3, 00, 2];

Vector < 12+> y; - 83. -

Q= { 3, -2, 0, 1 };

b = { "hello" (pm), yoppers.

Vedox < string > names; names. add ("ebc"); // { "abc"} names. add ("xyz"); // { "abc", member Junchen g Vector

Vector < ch ox>	
SS	
0	
String	

Vector names. X

Vector <sking > rames.

names. add ("abc"); // { "abc"} names. insert (0, "def"); // { "def", "sc"; new members

Juchon

What Also used to represent lists
Different syntax
More restrictive Z. string & [100]; // stansay of 100 strings Vectors Chan C [100]; // evrey of 100 a [100]; // arrang of 100 integers [ai] J Chereohus

Member	I un Choin
v. add (velue)	appeared reduced to 1
V+= Velue 1, velue 2, Velue N	
v.clear()	removes ell elanants
vci) or v.get ii)	get the value at index i
Vinsent (i) velue)	4 given holie ju
	subsequent velues to sight
wis Empty ()	sabura brue if vector contain
C= V. Acmore (i)	remone velue et index i
	left return the
	A Drown water

	opada
print and some some	(%) (%)
	\
" 5 "Lelle" " "world" ? "	
(
return string refree exten.	く・ナッタナ・ine()
number of elements in (V. S. Z. C.)
Grate +	
rents is subrey	v.sublist (stast, lengt)
sohuma new wellon el	
replaces value et given index	VCi3 = Value V.set Ci, Value

		Cow	2
		~ << v. & Sk. ? ()	\$ ^ <

Vector <shim)> names = 8 "eb", "cd", "ef" };

for lint (=0) names. size(); i++>

cout << names [:] << endl;

(A)

ريا ليا زء cont << names[i] << coll; name. 012(1-1) i>=0; (--)

ng p 3 for-each loop over collections (sking 40 g Coet << とのとの 7920 << edl ; names)

Connot in a fire last Shring 75 **م** • . Court << a << endl. Q · names) Jan Column

```
Efficiency?
                                            cout << i; // 8
                                                    i= v. Jemove (1);
                                                                    V. remove (1);
                                                                                                V. insext (2,42);
                   Slower
                                   \,
                                                                                 くい
        elements need to
                                   3, 42, 9, 7, 5}
                                                                        0
ohist T
                                                                                  69
                                                                                  42
                                                                                 N
```







