

DATE:/
Systen > Containers name eterator: iterator vorioble
Eg > vector <int>: iterator is; de auto i;</int>
begin () -> Address of first element, end () - Point Memory location beyond loost element.
lost dament.
Simila (ati a Paid)
##) Simple Container Vair
(A) It is a Simple Container of having only two elements in it.
2 It (an be of Same type or different types, it can be obtaind, Confuted.
Syntan: > fair (data-type 1, data-type 2) Vair name;
Emple.
int main ()
fair < int, int > \beta, (10, 20);
lington and the "of the party".
fail / int, String > po (10, "Creeksforlemon");
Coul << \b, first << " " << \f, Second << endl;
Coul << p, first << " << p, Second << end);
(**) If we do not intilies the fair it gets default value () in Case of
- h a l a lt. Shi i Calo al Strie.
int and entry Thing in Case of String.
Good Write

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(##) Comparison of	Tris
int main ()	
I fair < int, int > fo, (1,	,
coul << (b, = = b2); It	will true if beth Valus are Same.
Cout << (f, != f2); Both	Same = O, Boll or Any Dill = 1.
	•
Cout 2 (p, 7 p2); Check	fill Nature only, if Same Story Chick Second
Coul 44 (b. 4 b) . // /	tul 11 1 1 1 1 1 1 1 1
7 (#1 \$2), (heir g	tryk Walue only if Same then Chick Server!
$\delta l c > 0$	
$0 \not\parallel \Rightarrow 0$ 1	
	~
1	3
(##) Vector	
-> It is a alternative of a	reay whose Size increase automatically.
@ Advantages of Vector over	gray
1) Dynamic Size	an be losily beturned.
DRill /- lrow 1 m	(5) Ellaint
C Man Marin J	
@ No Need of full Size	E rost
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	Return Vector in for	Return array in fr
	int fam ()	int fan ()
	5 0	
	int fam () (weter \(\sint \(\nabla V \);	L int arr (100);
100	1	
	return V; Walif	J. return an; 11 Not Walid
	3	<i>J.</i>
	9 AH) 1/2+1	1. f. \$ ()
	AH) Vector D	octaration 4 1/rapursar
	3 Syntan > yuetor < lot	to tel > 100 feet mane
	3	() () () () () () () () () ()
1	2 De Claration of yeather with	! Size > Nector - Sala-type > Mutor-nome (N).
	/T-	
	€ Accessing the Weter element	t > vector < int > V; for (int i = 0; i < V. Size U; i++) (i + ← V (i):
	9	for (int i =0; i < V. Size (); s++)
=		Cout << V(s);
		by (int x:V)
	The state of the s	Cout LL K;
	De Wedly Osed Juntio	n of Vertile
2	(1) fush bock > Jush elme	nt from book. fish book (6), fush but (ar (i)).
P	a bob bok > hop element	from book popilark (6);
	3) insert () > insert elem	at at stinler Vinsert (V. legin () + s, 7).
•	Ferose () > remove chront	at i inden or range. V. erase (V. lugii ());
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(5) Size () -> Return no. of element	in pretor 1. Size ();
6) empty() -> Check well a th	
(E) Enfty() → Check weter empty	or not, Venfly ();
Sort he Votor	D. Sort (V. lyn (1, Verd (1);
(2) lieury (1) 2 Peners the With in	Serverse (V. login (1, chent (1);
(9) lienary_ Search () > Check_element in 1	upot as at line a client and mid
(2) lienary Search () > Check element is for	Chut of Met Jeinory Sarch (Kleyin O, Veln U, 7)
1 olyand list	
as used to inflement fin	who hished lift 9h 16-16
terms of time (18:4 91.	d grant
Terms of time conflictly. It is adjaceny list refresentation of graph.	generally used in chaining, hashing,
adjaceny list refreshtation of graft.	
Syntan > forward list = int >.	
Tiell as a second	
I stay the element of forward list	> for (intr: 1)
Disslay the element of forward list	ty ()
Oinsert after () > O(1)	(remove () ⇒ O(n)
Dirose_after () > O(1)	(P) assign(1>> 0(1)
3) flush fruit () > 0(1)	(8) fup funt() > 0 (1).
(9) Severse () > O(n)	-
Destand Write O (Mlyn)	

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0	
	(HA) List
	= It is add he implement the double linked list. It has
	both next free cleman 's fainter as the doubly linked list.
	System > list < int >l;
	Crawedal > for (auto its = l. hegin (); its != l.end(); its ++)
	(out " ","</th
	Line Confloity:
	Ofront () > O(1) O crose (its) > O(1). Brunk () = O(N)
The state of the s	J L L
	Dback (1 ⇒ 0(1) P fush funt () ⇒ 0(1) Bremone (1 > 0(N)
	② Size() >> O(1) (B) fush_back() >> O(1) (D) Sort() >> O(N*byN)
-	(4) legin (1 > 0 (1) (1) front (1> 0(1)
	(1) liegar () = 1 O (1)
	(5) end () > 0(1) (1) flop bock () > 0(1)
	C) and () -1 of)
-	
7 6 4 4	
-	
-	
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