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Der lecture -18

2D-Array and vector

Diagonal bout : 14 12

*

code 8

Col = 0;

2 5

Inhile (col < 4) {

8 3 6

i=0, j=col;

12

While (1>=0) {

Coutex arr [i] [i];

1++;

j - - ;

row = 1;

While (1014 < 5) { 7 10 13 11

i=10W, j=3;

14 15

INNIE (1 (=4) {

Cout << ancistis;

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*	Count zeroes in a sorted Matrix:				
	N=3 of bois money of				
	0 1 2				
	A = 0 0 0 0 9 100 Margais X				
	Small 1 0 0 1				
	Size 2 0 1 1				
	large,				
	same.				
	Find last zero of Every & row:				
	0 0 (ast				
	count = count + j + 1				
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
	0 0 0 1				
	last count = count + i+1				
	= 3 + 1 + 1				
	= 5				
	6 1-1				
	Count = 5+0+1				
	last = 6				
	Wall Committee of the C				
*	start from top right:				
	All 200 0 (b)				
7	0 0 D A11 1.				
	130000				

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	Data : / /	

0	0	0
0	0	(0)
0	1	1

when o found

When 1 found

4 Move down.

4 Move left.

count = j+1;

Till When:

code :

int count = 0, row = A. size(), col = A[o]. size();

int 1=0; i= col -1;

While (i < row 22 i) = 0) {

(t = = [i][i]A && O = < [i] slidk

1 -- ;

Count + = j + 1 :

1++;

return count;

3

3;

STL (standard Template Library)

Dynamic Army (vector)

4 size in not fixed at initial.

Vector < in+> Vector_name;

Larr

Insert value ?

4 am push_back (Element);

Delete value:

→ arr.pop-back();

17 bob last Element

Size :

Ly arrisize();

For accessing first Element:

Hampon or arr. front ();

For accessing last Element:

HarrEn-17 or arr. back ();

For deleting all element of arr | vector:

→ on clear();

vector size is always : { 27

0,1,2,4, 8, 16, 82 --

A STATE OF THE PARTY OF THE PAR	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
	It double array size lumile pushing element.
*	create a vector and insert to element?
	# include <vector></vector>
	Vector (int)v;
	for (int i= 1; i<=10; i++){
	v.push_back(i);
	3
	i < V·size();
	for (int i=0; i<10; i++){
	Cout<< v[i]<(" ";
	3 the second entering the second entering
	Sort (v.begin(), v.end(), greater (int)()); O(Nlogn);
*	Cout << v· capacity() << endl; → (2m)
	Cout << v·size() << endl; → actual size
	V. 120p-back () -> delete last element
->	Vector (int) arr (size);
->	vector (int) arr (size, initialise);
	vector (int) arr (5,2);
4	90 this capacity is s.
	2° → Not applicable
	If we add one element then it double
	5 to 16.
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20 - Array / vector :

vector (vector (int) arr (u, vector (int) (3));

array Polus Column

rows = arr.size();

column = arr[o]. size();

Element = rows x column; Total

vector (vector (in+)) arr (3, vector (in+)(3));

for (int i=0; i(3; i++)

for (int i=0; i(3; j++)

cin >> arr [i][i];

sort (arr. begin(), arr-end());

for (int i = 0; 1(3; 1++)

sort (arr[i]. begin (), arr[i]. end());

for (int i= 0; i<3; i++) {

for (int i=0; i(3; 1++) {

Cout << arr [i] [i] << " ";

Cout (Kendl:

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char am[10];

for (int i = 0; i < 10; i++) {

cin>> orr Ei];

7

an > an;

F = heapting

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