Aray DATE:_/		
Att / Way		
> It is used to store same type of data elements in		
the Continuous manuel. "Have of the array is the Base Address."		
ABCDE.		
(XX) Advantages		
(1) Random Access > but it slement in O(1) Time		
because are have address of the first element.		
2) Coche Eriendliness > Coche is fastest and very Closet		
to the CPU. The Coche friendlines refers to that to		
access the nearby Set of element if you access element of away		
that nears, if you access element A, then B, C, D also get fetal.		
A stay Tyfes		
Destate / Find Sized & Size of A May is timed		
Eg'- 1 int aus [100] D int an [m] D int ars [7= \$10,20,30,40].		
(3) if # ON = mer) int [m]		
Heaf Albreation.		
Good Write		

DATE:/
(2) Dynamic Sizel May > Away Size is not fired, it can be Chayed
> Ref. is 100 miles
-> lector is used to inflant the Dyranic Sixed May
D'Kesize Autonabily
Operation in Array
(Ast) Seasiling in Away
(A) For Sorted Away searchy is done by Birmy Starch.
for (Infortal Array Searchy is done by Lines Search,
Linear Search
ent Search (int are (), int n, int n)
$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$
if (are [i] = = n)
return s;
return 1; line Complerity > O(n)
7
Inserting in May
-> We Can't insert if army Size is find and it is about full.
D For that we med to theek whither is away is full
Good Write

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[5]7]3/10/ = 5/11/7/3/10/
$101 = 2 \chi = 11, ioh = 1.$
int insert (int ars [], int n, int. K, int Cap, int for
if(n = Caf) seturn n ;
int ide = pos-1
for(int i = n-1; i > = idk; i -)
ar(i) = ar(i);
all [ishn] = x;
Setorn (m+1);
Line Complenty > O(N), At the End > O(1).
Doletion in Array
int delete (int are [], int n, int n)
sint i;
$\int \delta \left(s = 0, s \leq m, s + t \right)$
if (arr (s) = = n) 11 Searling for 1st securance
Good Write

	DATE:// PAGE:
if (s = = n) // Element Not found	
Section :	
return n j	
for (int j = s; j < m-1; j++) // If ele	ment freent loop will Run
ar (i) = au 5: 017	
arc(j] = arc[j+1]; // Shif	ting of elements
Lotorn (n-1); // Return de	letel arry
	2
J. (Summary of Operations	
Insert O(n)	
Search O(n) (Insorted) C	(lyn) (Sorted)
Delete O(n)	
bret it element O(1)	
Upolate it element O(1).	
De Insert at enl & Delite at en	ol done in O(1) Time
(##) Largest Elemant in AM	ay
int largest (int are (), int m)	
1 ont man = arclos;	
for (s=1; s' <m; s++)<="" th=""><th></th></m;>	
Good Write	1.5 T-12

	DATE:/
if (au (i) > man)	The same desired
man = ass (s)	
return man;	
(XX) Method for finding Size	e of any array
int m = Size f(arr) / Size	ref (arr Lo]).
1 Pollom 1 > Kenerk	the Array String
	7
int renersearry (int arr ()	(, int n)
2 Word = 0; int end	1= m-1; int temp;
achile (arr (Start]! = a	ise (end])
temp = arr St	
or [stul] = or [s	end);
ar (end) = temp;	
Start + + ;	
end j	
	and the first
John (* Sury	fling will the help of temp usinely
Good Write	e, ye da Yasarii