M T	WTFSSU	Date
		C++ STL
	Jalgorithn	2) [Containers]
	Array	
9	array <int,< td=""><td>4> a = \$1,2,3,43; (create)</td></int,<>	4> a = \$1,2,3,43; (create)
3	înt sîze = (a. size (size of array)
26	contecc	2D; i2sizi) i++) (print)
9	a. ot(2)	1
9	a.empty()	-> Empty or not
)	a.front()	> yirst element
	a.backy	-) last element

M T W T F S		Date
2) <u>Vector</u>	(Dynamic a	viay)
-> double 9	ts size where	r vector is full.
by cope	ing old we	ctor to double
new '	uctor 2	ctor to doubted childring old on.
		<u> </u>
> #include <	major> >	s library.
	4.00	
> metor <in< td=""><td>+> ∨;</td><td>cuate a vector.</td></in<>	+> ∨;	cuate a vector.
-> v.capacity	$(); \rightarrow$	siza. (double after
	4 -	
> v.pwh-b	$ack(1) \Rightarrow$	add I in wetor
		as element.
> v.at(2)	- Selini	int at 2nd Indix
	1 .1.4	
-> front() &		
> v. pop-bo	$ick(); \rightarrow$	remove lost insect
> \/ (l \/ \)	~ ~ ~	eliment
> V. chon();	-> remou	· · · · · · · · · · · · · · · · · · ·
	4 - 4 \ 1 - 1	r - 1 - 1 - 1
> magazama	$\alpha(S,I)$	5 element in
		nector with I
		as value for all.

-1	
3)	Degru
	t

() remove for eliminal

> Hindudy < 4st>

Date MTWTFSSU (last 9n first Out) 5) Stack > #include < stack> -> Stack<String> S; S. push ("Yash"); 5. push ("Svi")) 5. push ("Vastav")) olp -) Vostav >> 5. top (); remove top. > 5.pop(); + > s. sizul); (First 9n first Out) Queu > # include < quim> > quunc string> 9; 0 → 9.push(" Yash"); q-push ("Szívastav"); q. front(); -> O/p-/Yash 9. pop(); -> remory O/P > Svivastav q. front(); ->

)	M T W T F S SU	Date
3	s a) set (stor	e unique element only
3	s 118 alvalia cet	
3	>> set <int>5;</int>	
3	S, însert (5);	
3	s.insert (1);	
3	5. insert (6); 5. insert (0);	10 (P!-
3	> p for (auto iss) (a scorte
3	conteciec endl;	1 ord
3	3	S
3	> 3. evare (s. beginu);	6
3	> > s. count (s) 1 [] 5 [present or not
9	> set <int>:: iterator itr</int>	= 5. find (5);
9	cout << *i+r;	
9)	> 0/P > 1
9	>	
9	3	
9	D	
5	3	
0	2	
9	2	

MTWTFS	Date		
9) map	+		
> #Producte (map)			
> mapcint, string> m;			
m[1] = "Yash"; m[12] z "Sri"; m[3] 2 "Vastav";	m.insert (25, "bheim"3);		
for (auto i'sm) { > cout <ci. first<<end()<="" td=""><td>JOIP January Sorted</td></ci.>	JOIP January Sorted		
	HUIR/		
10) Binary Search			
> #Inducti < algorithm>			
> rector <int>v) v. push-back(1); v. push-back(3); v. push-back(6); v. push-back(7); v. push-back(7); v. push-back(7);</int>	return frui because it because it in present begin(), v.end(), 6)		

> lown-bound (v. begin(), v.end(), 6) - v. begin(); uppn-bound $>0/p \rightarrow [2]$
> $a=3$, $b=5$; $max(a,b)$; \rightarrow 5 $min(a,b)$; \rightarrow 3 $swap(a,b)$; \rightarrow 5, 3
> String abod = "abod" return (abod. begin (1, abod. end()); > rotate (v. begin (), v. begin () + 1, v. end ()); 9/P -> 1367
> sort (v.begin(), v.end()); Ly using guto sort -> Quick, heap, grution Combination