		Date:	YouvA
^ a	Methods of array don't work for	multidine	120
	Methods of array don't work		Mostlo
	aray		
	jagged onay		
	3 00		
	int [][] anr = new int [4][];	The Table	
	The same of the sa		
*			
*	Collections	7161	
	2) -> Regular collections		
	Jenene Concorra	· · · · · · · · · · · · · · · · · · ·	
	Genenics		
		• • •	
	class My Class (T) To data ty	pe	
	£		
	void swap (ref. Ti, red Tj)	•	
		1 2 1 1	
	//swap		
	3	<u> </u>	х (6,
	Main()		
	Main!) ¿ Myclass < int > 01 = new Mycla	on < into ();
	(1)	C	
	Constraints		
*			
	class MyStack <t></t>	,	
	where T: class 1/T		a
•	ref		
	When T: Shuck IT must be	value by	PR
	: Class Hame UT me		/
	Class spe	ified or	
	derind	class	

Page No.: Page No.: VOUVA Date:	The second secon
where Ti Interfora Name //T must be a class	
that implements the specified interface	
where T: new () // thust have no parameter	***
constructor	
Where T: ClassNome, Interfactione, new()	
int? a = 100;	
1/ Nullable < int > b = 100; using generics internally	
	1
Collection > Mon Generic Collections	
Dynamic memory polloction, growable	
using System. Colle ctions;	
IFnumerable	
The second secon	
Icollection	
Stack	2
Cereare (Key, value	.)
IList I Dictionary	
Array List HashTable Sorted List	
Conteaust	
Key-must be uniqq	•
valled you mant to	
rayer you mant to stored.	
Add, Remove, Count -> ting rinj	
rinj	
Ting	

	Read doning	Page No.:	5
	1100	Date:	YOUVA
-	A 1'		
	Arraylist	A de la constant de l	
	Add		
	Remove (obj)		
-	Remove H (Inder)	12.1	
-	AddRage (obj2) add at e	nd on dirt	
	Inject (0, "abc)	•	
	Insert Range (index I collection	1)	
	Remore Range (index, count)		
1 2 ×	Contains	3 × 3	
	- Indexof	, <u>, , , , , , , , , , , , , , , , , , </u>	
	Lost Index of		
	BinarySearch		
		aylish bo a	MA
	Ger Range, Set Range		
	Revese		
	Sof	.	
	Totaray	•	
used	/		
10	of Capacity		
in	- TrimToSize - remark oxcers	capacity	
		/	, a
	capacity + block of memor	y instead	1 06
-	giring one at a	fine.	
A P	\mathcal{U}		
		9	
		i ka e i d	· · · · · · · · · · · · · · · · · · ·
			1 0
1			

zł.	23/07/2022	Add	
	n 4	remove	M T W T F S S Page No.:
	Day 6	count	Date: YOUVA
	Ipictionary		
	Hashtob	le (K,v)	
	Hash	Fible 5	
		table o = new Hashta	ble ();
	0	Add (1, "Amey");	1.41
	0	· 17 ad (1 "Alzoba 1).	1/000
		[a7] . Co	
	0	="new"; //o[KeyT
	•	[1] = "Amey Patcher";	overide the key
	0	-	didn't give even
	toreach ([1] = "new"; // O[[1] = "Amey Patcher"; Dictorory Frity item in o)	0
	2		
	ew	(item. key); (item. value); //oc	
	(w	(item. value); //oc	itput is not in
	3	0	rderd
		* · · · · · · · · · · · · · · · · · · ·	
	sortedlis	t o = new sortedlisty	1
	o. Remove	(1); // 1 is key	
	6. Remove	Af(1) // remove 10+	index value
			1
	O. contai	ns or both are	20002
	6- conta		
k*	O. Contain	rvalue	7, 3
	Canut	o convert into	1/201104-0-
	Cat B. Ir	dox att value	7 (6) 39 11 (5) 577 (5)
	Getkey	were gas varue	
	Thist 1= Getke	liaku	
		luction	
		notkey	
	-	of Value	
	Key	c - returns collection	
	valu	es - returns collection	1

Street of the st		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
setBy Index (o, "oa")	companion production of the control	And the state of t
		the contract of the contract o
Stack	Queue	the territory of the second se
Push	Enquear	
Pap	dequeue	
Peek	peek	
Boxing		
phi a b a c		
valleton; inti=100;	i=100	=100
restype -> 01 = 100;	01	
converting voluty pe into	o referen type	ic basis
reading something from t	near cause more	c line
avoid boxing		TIVE
		, , ,
int j;		
j = (int) 01; un	boxin	
	O A	
If you have box Valu	typ- & readi	~ Valux
If you have box Value box then it is called	d unboxing	5
		-
Avoid boxing & unbe	oxing	

M T y

Page	No.:			ĺ	
Date:		a-latyasets	Champion science	en, all place a	YOUVA

Generic collections is faster than non generic collection

non Generic collections use boxing

K. Generic collections do not use boxing so its
faster

Generic collections

Lenumerable < T>

Stack < T>

Casecic < T>

JList <T>
JList <T>
JList <T>
Jorded List Hash Fable (Tkey, Tvalue)

Dictionary <Tkey, Tvalue)

List <int> 0 = new List <int) ():

SortedList < int, string > 0 = new sortedList < int, string > 0. Add (1, "Amey"))

foreach (Kry Value Pain < Int, string > item in 0)

co (Item. Key)

List<T> is most frequently use class

List < Employee) lemp = new List < Employee)(); lemp. Add (new Employer & EmpNo=1, Name = "Amex"); foreach (Employee item in lamp) cw (item. EmpNo); cw (item. Name); Delegates are like function pointres in C++ to delegate - assign task to someone else delegates used in eventhooding synchronous The delegate is a class that inheritena from public delegate delegate Name

Also have Signature of function that need to all

to call function need to create object of delegate class

object Delegate Multicost Delegate -> It can point to more than one tundion some time (no limit) 1000 try add & substreet Action can call upto 16 parameters Action can call for functions having void return type. upto 16 parametro of return type Func <> last is always return type non roid return type Predicate <> only one parameter return type boolean. Anonymous Methods without method name don't foight to give semicolon Lambda Fundint int 2 02 = a = 9 9 42; eco (02(10)); 0/0 / 20 Func (int, int) 02 = () = "star 10; cw(o2()); //10 for zero parameters or more than I given parenthisis Functint, int) 03=(a,b) => a+b;