Quiz 8 (Last one. You did it!) (Fall 2019)	Section:
Name NiCholos De Franco	Marks:  / /10
Quiz 8 (Last one. You did it!) (Fall 2019)  Name: Ni [ No 195 3 2   6 3 3 2	1
Please Answer in complete sentences:	
1) What library do we include to allow access to the threading class  The library We in CIMO  ACCESS +0 +he +hre  15	18 to a 110W ading class
2) What is a race condition in terms of multi threading? (3)	
A VOCE CONdition 19	When 2 or
more threads atte	mory location
more threads attement of multi threading? (3)	1 the same time
3) What is a deadlock in terms of multi threading? (3)	inen /
A dead 10 CK accars h +nreads are waiting	on each
	in by ccutally
will couse the	Arego J
blacked indefinately.	
4) What is a process and what is a thread? (3)	tonce of a
A) What is a process and what is a thread? (3)  A Process is an executed on	a nosy rightorm
Bonus Question: What in your opinion was the hardest top this semester? If you could change 1 thing in the course The hardest top	endant ly processes und gent weight oppose in oop 345 yrosess,
this semester? If you could change 1 thing in the course	what would it be? (1)
· The harded was th	is WEEK'S topic.
never understood mus	tith read my own
when refore coming to	seneca.
The hardest topic the man of the mever understood must be fore coming to the western were to change I	ing the amount

Quiz 7 (Second last one. You can do it!) (Fall 2019)	Section:
Name: NICHOLAS DEFRANCO	Marks: (/ /10
stud #: 106732183	,
Please Answer in complete sentences:	
1) If a raw pointer is a built-in type that holds an address in memor	ry, and a smart pointer
wraps raw pointers: what type of pointer have we mostly been	Leen Most
The pointer we have	
using is a raw po	iviter.
in this (1855)  2) Explain the dangers of a raw pointer with dynamic memory going	g out of scope? (3)
THE PROSPORT POW POINTER THAT	POIN+5 to
the programmed raw painter that the programmed ynamic memory (a	resource)
responsibility of SCOPE WE 1050 + Ed members of a unique smart pointer going out of scope of a 44124	before the
werey Pointer 9085 04+ Of SCO	pe, If the pointe
1050 to 1050 We 1050 +1	e aldress of th
Explain the dangers of a unique smart pointer going out of scop	es (3) 4 x VI (4 x VI ( 4 x VI)
The Jangers of a your	Le Charmary 160
GIVINI TO IVITURE IVINOIVUS T	00-N +0 K
The same	ald vess, that
to he had not be	set to nallati
when the resource/object 15:	regulocated by the
4) What library are unique_ptr and shared_ptr a part of? Hint: (sto	in is not the answer I'm As
looking for)(2)	an indications
A Splain the dangers of a unique smart pointer going out of scope of the dangers of a unique of the dangers of a unique of the dangers of a unique of the fact that if a raw the fact that if a raw the fact that if a raw the fact that is the resource of the fact that is the looking for)(2)  The getting are unique of the shared of the fact of the fact that is the	mplate aria
$\frac{1}{2}$	1 TOWN C
are defined in the	zmemorys
header file.	
Bonus Question: What Stream object did we suggest usin	ng in the last
Workshop?(1)	-
Stringstream Wa	15 54.9 985+88
to be used in the last work	shot.
to be used in the indi	J. 101.

Section:\_

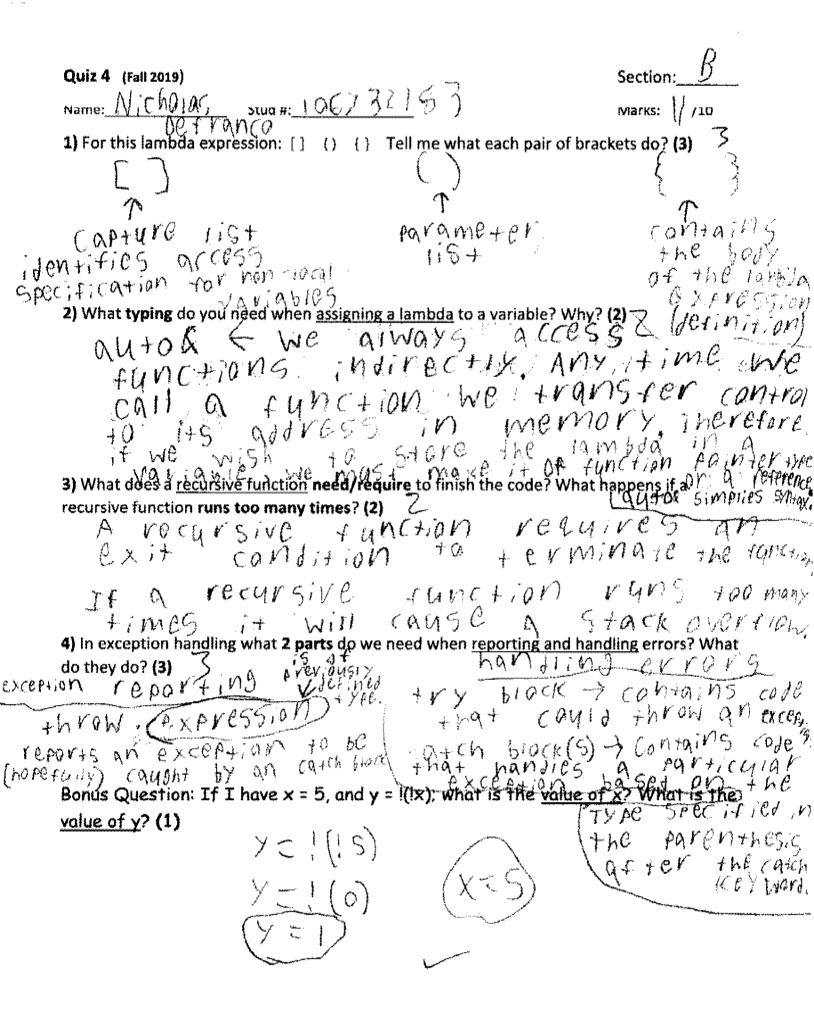
	Section: $\mathcal{B}$
Quiz 6 (Fall 2019)  Name: Nicholas Detranco  Stud #: 106732183	Marks: /10
Name:	(A) St. Ltd. / T. W
Stud #: 1007136	
	file? (3)
TSTREAM QUOWS TO ALLOWS TO TOP AND READ ACCESS TO	but with
and read access to	a file.
Clara	
1	s a successful connection
2) If I have an ostream object called fout, how can I check that there i	
to the file I want to write to? (3)	SUCC055f4117
TO CHECK if the object COINNECK if the object	ile you can
Control (A) the ic open()	Nember
either call the is open()	overload:
operator right after a	+ + e MP + in 9 10
3) Look at the code below, what is a major difference between variable	ile refWrap and refPoint? 0.2010
11 does calling thorn differ? (2)	1 7 6 C
int a = 5; refwrap arechi	ef wrop objert ectly access
+0 +NC	VI+ C. 9EV EVENCE
std::reference_wrapper <int> refWrap = a;</int>	Cf Wrop of 195%
int* refPoint = &a	CCITY ACCES
The second of the Maria	IC OF A Without
respoint stores the the valu	d Of 4 Without
address of a best the an add	rest. derefereren
OYALVA TO MISE ONLYEGS MAN	When Whole in account in
respoint storage In the nee address the an add ovder to access the an add ovder to access the an arese must be replained contust the aready the references cause contust the aready the references syntax.	rence wrapper is essentially
MUST ENCES THIS CAM A POINT	er inat 15 a received win
metimes cause control	$5 \times 0 + a \times$
Bonus Question: In your opinion, what was the hardest part	of the midterm and '
	·
the hardent part of the	e midterm
was the programming	- 200 x 10 x 1, 700 x
is because it is some	times difficult
+0 remember syn+ax	without the
TOWN AT LOW MON HE MY ALLE +	0 -654 6018 1

Quiz 5 (Fall 2019) halas Defranco Section: /10 Marks: Stud #: 106737183 1) What is an iterator in terms of containers? (1)

AN iterator Provides A WAY traverse a data structure that 2) Lists have sub-optimal storage. Why is that so, when compared to vectors and deques? (2)

Lists have sub-optimal storage. Why is that so, when compared to vectors and deques? (2) they are not optimised for access. Lists must iterate through the elements every time 3) What is a Deque? How does it manage its storage? (2)

A Deque is a lower of a sterior of a st Structure. The data Structure is aprimised for insertions and teletions at either end of the data structure stored in dynamic memory (free store) 4) What is a vector? How does it differ from other containers? (2) and can charge its Jata Structure. The data Structure Z is optimised for insertions and active and interpretations and structure and interpretations and at the end of data structure unlike the other containers this containers this containers this containers this containers when talking about Stacks vs Queues, how does each one retrieve and remove its data? (3), in Stack is a data structure that (memor) Workstop Nor FILO Stack (1951 entered) are kemoved. Queue is a data Structure that operation Bonys Question: What happens if I ran this code? int \* a; delete[] a; (1) Exit first error as you are (405+top) run-+ime de-allocatting memory that



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Quiz 3 (Fall 2019)	Section:
Nicholas petravica	Marks: // /10
106737163	11
Quiz 3 (Fall 2019)  Name: Nicho 195 Pefranco  Stud #: 106732 163	_
Instructions: I am looking for 1 – 2 sentence answers, not full paragra	
1) Explain the creation/destruction of objects with an association. Ex	. An object called <b>Player</b>
is associated with a Team (3)	MAINTIONSHIP
is associated with a Team (3) 3  AN ASSOCIATION IS 9  Where one class toe  the other there are ind  each other this means to  class managesisconstruction	
where one class doe	5 NOT OWN
the other. There are ind	erendanting
each other this means th	reintion
class manages construction	n a vid de 5 Tr 400 on
an their awn construction	un phiert called School we related
2) Explain the creation/destruction of <u>objects</u> with aggregation. ex. A	od +219 of +46 close
may have objects of Students. (2)	05/1/00
Aggir and Class No	+ Manage
Where a construction	185411154500
the constant	NEXVINCTION ON
of the aggregation type co	INP INP CONTRACTOR
destruction of the aggrega	TEL TYPE OCCUPS
3) Explain the creation/destruction of objects with composition, Ex.,	An object called buildings
has/is composed of an object called rooms. (2)	Be 3 truge Lake object
CIASS Managlsisconstruction  2) Explain the creation/destruction of objects with aggregation. Ex. A may have objects of Students. (2)  Aggregation  Aggregation  CIASS  Aggregation  Aggregation  CIASS  Aggre	Complete
ownership of an objec	+ This MORANS
THE COMPOSER MISS	s respansible
- FOR THE CONSTRUCTION	and BESTRUCTION
annership of an objective composite the composite the composite the composite that the composite that the composite the composite that the com	ne doesn't. Which one
4) If we have a variable int $i = 5$ , one of these operations work and of works and why doesn't the other one work? (3) $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	+ + PE+WENTER
A. ++(++i) B. (i++)++ B. Will Market Which	10 Mork
	$\wedge$ IFIL VP WEVI $+$
a perator requires an ivo	lue, fre-tix
increament returns an 11	MIGE ALLOWING
operator requires an ive increament returns an ive Bonus Question: How can you swap the values of two ints wi	thout a third variable
or functions? (1)	
The second secon	

	(Fall 2019)	Section: 1)	
Name:	Nich	10105 DEFRANCO	
Stud #:_	1067	32183	
Instruc answei	<b>tions</b> : This rs. <b>not</b> full	l paragraphs.	sentence
<b>1)</b> Wha	at is the di	ifference between a Concrete type and an Abstract type?(2) + PPC	h9+
rovides	Car	Stract to the stand of the stract of the str	hat Abstract
N WHEN	2 A 65	Stract to the Jetail 5 h cannat be the	ns tantates
o 2 wh	at 2 things	s do you need to make a pure virtual function and describe what ea	ch does?(4)
		Vir+ual) (E	0)
	V NI	irtual keyword irows for dynamic  Func  Pur  Pur	tion as e (no will pition will
<b>3)</b> Wh	at are the	2 admissible types (types that allow for substitution) for a templa	his seesifica
paran	neters. E.g	ad Missible + ypes that	91100
	$-f \wedge V$	SUBSTITUTION are / type	template
	pera	template perameters (ex, integer	nd Non- ar evam +yAe)
<b>4)</b> Ho	w can we	SPA+Ch 2 admissible types (types that allow for substitution) for a template g. template ??? (2)  Ad Missible types (types that allow for substitution) for a template By bs i bill types  The Area of types  The Area of types  The Area of the Area of the WS1 submitter problem  The Are	er fault to
**************************************	2)	X: template & Typename T = lon	9, 1V1+5120
Bonu	ıs Questi	ion: What was the main cause of the WS1 submitter proble	Pa+h to
	04	ME direct was wissing	the
	+ V	ion: What was the main cause of the WSI submitter problem 100 directory in the he he files was missing to the hermission of the hermission	the Users

Quiz 1 (Fall 2019)	An Crabo CA		Section:_	
Name: Nicholas	BET WILL		Marks: /(_)	/10
Stud #: 106732193				
Instructions: This is a simple		nin to write it. I am i	ooking for 1 – 2 s	antenc <del>e</del>
answers, not full paragraphs				
1) Simply Explain the differe range capacity differ (what max/m			riable. How does t	heir
			tore se	90420
signed signed consigned unsigned	AND	POSITIV	e Valu	25
unsigned unsigned	Vakiaki	er (an	Storp	0 $an$
0-6"-1) positive	Values		J / V / L	Co William
ท เล ทุนต์เอก	" '	•	v.	· · · · · · · · · · · · · · · · · · ·
O-1 2) What is the difference be				/*
an initial pe user	$\circ$ $\circ$ $\circ$	VIUE THO	+ (9)	<b>~</b> )
animy be used	AS	an ap	erand	iV)
can be cannot	PKESSION	o which	RVaige	RVAIGE
an be Carrot	Lyaige	the support of the second of the second	7	i 11899/
to a variable a =	à th,	a=var+	(Var++)+	
3) Why would you use a mov	e copy constructor	or a <b>move</b> assignme	nt operator instea	id of the
regular copy constructor or a	assignment operator	? (3) 3	4a 0a	
	C + 15	2000	79	aut
4) How do we specify variable	e tarned	caving a	of car	of and
the returne	de sal	t we ca	n mo	ve the
4) How do we specify variable	e inference when cr	eating a new variabl	e. What 2 parts do	o we
need? (1)	**************************************	<b>,</b>		
au+a	· · · · · · · · · · · · · · · · · · ·			
1 Kerword		a initial	Value	
D Keyword Bonus Question: What does the = operator return? (in most cases) (1)				
A refer	ence +	a the	1841 01	erani

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