GENERAL INFORMATION			
Test Function Name :	testQuarterDefaultCtor	Test Case Number:	#1
Test Case Description:	The case tests the functionality of defauretrieves the right year and the		
Results:		PASS	
	TEST		
Input Specifications:	No inputs required		
Procedural Steps:	Just calling the default constructor		
Expected Results of Case:	Due to The current date 27/4/2023 we are in Quarter 2 from year 2023  quarter=2 , year = 2023		
	ACTUAL RESULTS		
Output Specifications and comments :	The actual results match the expected result as it makes q Quarter object that has the same data of the current date		
	quarter=2	? , year = 2023	

	GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor2	Test Case Number:	#2	
Test Case Description:	Takes an illegal time 10/10/1899 as a parameter for the constructor and it throws an exception			
Results:	ı	PASS		
	TEST			
Input Specifications:	- Time object in milliseconds - Quarter object time as parameter			
Procedural Steps:	Take a time object 10/10/1899 in milliseconds as aparameter for the constructor and it is expected to throw an Illegal argument exception			
Expected Results of Case:				
	ACTUAL RESULTS			
Output Specifications and comments :	IlleagalArgumentException as the	expected because 1899 is out	of range	

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor2_2	Test Case Number:	#3
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

/////

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor2_3	Test Case Number:	#4
Test Case Description:	Takes an illegal time 10/10/10000 as a an e	parameter for the constructor exception	and it throws
Results:	ı	PASS	
	TEST		
Input Specifications:	<ul><li>Time object in milliseconds</li><li>Quarter object time as parameter</li></ul>		
Procedural Steps:	Take a time object 10/10/10000 in milliseconds as aparameter for the constructor and it is expected to throw an Illegal argument exception		
Expected Results of Case:	, , , , , , , , , , , , , , , , , , ,		
ACTUAL RESULTS			
Output Specifications and comments :	IlleagalArgumentException as the expected because 1899 is out of range		

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor3	Test Case Number:	#5
Test Case Description:	Takes an illegal Year 10000 as a para ex	ameter for the constructor and i ception	t throws an
Results:	ı	PASS	
	TEST		
Input Specifications:	- Year object - Integer Quarter		
Procedural Steps:	Take a year object 10000 as a parameter for the constructor and it is expected to throw an Illegal argument exception		
Expected Results of Case:			
ACTUAL RESULTS			
Output Specifications and comments :	IlleagalArgumentException as the expected because 10000 is out of range		

GENERAL INFORMATION					
Test Function Name :	testQuarterConstructor3_2	testQuarterConstructor3_2 Test Case Number: #6			
Test Case Description:	Tests the constructor if it takes valid quarter and invalid year (1899) as an object from class year				
Results:	I	PASS			
	TEST				
Input Specifications:	- Int Quarter = 4 - Year year = 1899				
Procedural Steps:	Takes a quarter = 4 and year = 1899 as parameters to the constructor and it is expected to throw an Illegal argument exception				
Expected Results of Case:					
ACTUAL RESULTS					
Output Specifications and comments :	IlleagalArgumentException as the expected because 1899 is out of range				

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor3_3	Test Case Number:	#7
Test Case Description:	Takes invalid quarter >4 and a valid year and expected to throw an exception		exception
Results:		FAIL	
	TEST		
Input Specifications:	-	nt Quarter = 5 ear year = 1999	
Procedural Steps:	Create Quarter constructor with quarter = 5, and year = 1999 expected to throw an exception but instead of that it creates the constructor successfully and that is wrong		
Expected Results of Case:	· · · · · · · · · · · · · · · · · · ·		
ACTUAL RESULTS			
Output Specifications and comments :	It creates the constructor successfully		

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor3_4	Test Case Number:	#8
Test Case Description:	Takes invalid quarter and a valid year and expected to throw an exception		
Results:		FAIL	
TEST			
Input Specifications:	- Int Quarter = 0 - Year year = 1999		
Procedural Steps:	Create Quarter constructor with quarter = 0, and year = 1999 expected to throw an exception but instead of that it creates the constructor successfully and that is wrong		
Expected Results of Case:	Expected to throw an illegalArgumentException		
ACTUAL RESULTS			
Output Specifications and comments :	It creates the cor	nstructor successfully	

	GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor3_5	Test Case Number:	#9	
Test Case Description:	It tests the happy scenario as it takes valid year 1990 whi	quarter integer 3 which is <=4 or ich is >=1900 & <=9999	& >=1 and a	
Results:		PASS		
	TEST			
Input Specifications:	- Int Quarter = 3 - Year year = 1990			
Procedural Steps:	Create Quarter constructor with quarter = 3, and year = 1990 expected to make a Quarter object with quarter = 3 and year = 1990			
Expected Results of Case:				
	ACTUAL RESULTS			
Output Specifications and comments :	make a Quarter object with quarter = 3 and year = 1990 successfully			

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor4	Test Case Number:	#10
Test Case Description:	Tests the behavior of the constructor w	hen it takes valid quarter and v	valid int year
Results:		PASS	
	TEST		
Input Specifications:		nt Quarter = 4 nt year = 1990	
Procedural Steps:	Creates a constructor with quarter = 4 and year = 1990 and check it is created with these values or not		
Expected Results of Case:			
ACTUAL RESULTS			
Output Specifications and comments :	Create constructor successfully		

GENERAL INFORMATION			
Test Function Name :	estQuarterConstructor4_2 Test Case Number: #11		#11
Test Case Description:	Tests the behavior of the constructor w 1900 and	hen it takes invalid year that is valid int quarter	smaller than
Results:	ı	PASS	
	TEST		
Input Specifications:	<ul><li>Int Quarter = 4</li><li>Int year = 1899</li></ul>		
Procedural Steps:	Creates a constructor with quarter = 4 and year = 1899 and check if it throws an invalid argument exception or not		
Expected Results of Case:			
	ACTUAL RESULTS		
Output Specifications and comments :	IlleagalArgumentException as the expected because 1899 is out of range		

GENERAL INFORMATION				
Test Function Name :	testQuarterConstructor4_3	Test Case Number:	#12	
Test Case Description:	Tests the behavior of the constructor when it takes invalid quarter that is greater than 4 and valid int year		s greater than	
Results:		FAIL		
	TEST			
Input Specifications:	- Int Quarter = 5 - Int year = 1900			
Procedural Steps:	Creates a constructor with quarter = 5 and year = 1990 and check if it throws an invalid argument exception or not			
Expected Results of Case:	of Throw an IllegalArgumentException			
ACTUAL RESULTS				
Output Specifications and comments :	It creates the co	nstructor successfully		

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor4_4 Test Case Number: #13		
Test Case Description:	Tests the behavior of the constructor wh 1 and v	en it takes invalid quarter that i ralid int year	s smaller than
Results:		FAIL	
	TEST		
Input Specifications:	- Int Quarter = 0 - Int year = 1900		
Procedural Steps:	Creates a constructor with quarter = 0 and year = 1990 and check if it throws an invalid argument exception or not		
Expected Results of Case:	· · · · · · · · · · · · · · · · · · ·		
ACTUAL RESULTS			
Output Specifications and comments :	It creates the constructor successfully		

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor4_5	Test Case Number:	#14
Test Case Description:	Tests the behavior of the constructor which is greater than 9999 are	hen it takes valid quarter and ir nd expected to throw an except	
Results:	ı	PASS	
	TEST		
Input Specifications:	- Int Quarter = 4 - Int year = 10000		
Procedural Steps:	Creates a constructor with quarter = 4 and year = 10000 and check if it throws an invalid argument exception or not		
Expected Results of Case:	· · · · · · · · · · · · · · · · · · ·		
ACTUAL RESULTS			
Output Specifications and comments :	Throw an Illega	IArgumentException	

GENERAL INFORMATION				
Test Function Name :	testQuarterConstructor5() Test Case Number: #15			
Test Case Description:	Tests the happy scenario for the constructor that takes (Date , TimeZone)  As the Date is >=1900 & <=9999			
Results:	ı	PASS		
	TEST			
Input Specifications:	- Date (1/MAY/2023) - Timezone with ID = UTC			
Procedural Steps:	Creates date object (1/MAY/2023) and time zone with ID = UTC and pass these parameters to the constructor it is expected to create Quarter object successfully			
Expected Results of Case:				
ACTUAL RESULTS				
Output Specifications and comments :	create Quarter object successfully with quarter = 2 and year = 2023			

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor5_2	Test Case Number:	#16
Test Case Description:	Expected to throw an exception when to	ry to pass invalid time and valid onstructor	d timezone to
Results:		PASS	
	TEST		
Input Specifications:	- Date (1/MAY/1899) - Timezone with ID = UTC		
Procedural Steps:	Creates date object ((1/MAY/1899) and time zone with ID = UTC and pass these parameters to the constructor it is expected to throw an exception		
Expected Results of Case:			
ACTUAL RESULTS			
Output Specifications and comments :	Throw an IllegalArgumentException		

GENERAL INFORMATION			
Test Function Name :	testQuarterConstructor5_3 Test Case Number: #17		#17
Test Case Description:	Tests the boundary year for the constructor that takes (Date , TimeZone)  As the Date is >9999		neZone)
Results:	ı	PASS	
	TEST		
Input Specifications:	- Date (1/MAY/10000) - Timezone with ID = UTC		
Procedural Steps:	Creates date object ((1/MAY/10000) and time zone with ID = UTC and pass these parameters to the constructor it is expected to throw an exception		
Expected Results of Case:			
ACTUAL RESULTS			
Output Specifications and comments :	Throw an Illega	IArgumentException	

GENERAL INFORMATION				
Test Function Name :	testToString Test Case Number: #18			
Test Case Description:	Test the valid forn	nat of toString function		
Results:		PASS		
	TEST			
Input Specifications:	Quarter = 4			
	Year = 2000			
Procedural Steps:	Creates the constructor with quarter = 4 and year = 2000 and check if to string function equals ("Q4/2000")			
Expected Results of Case:	·			
ACTUAL RESULTS				
Output Specifications and comments :	"Q	4/2000"		

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#19
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	s □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

	GENERAL INFORMATION			
Test Function Name :	testParseQuarterBackSlash Test Case Number: #20			
Test Case Description:	Tests parseQuarter function when it takes the format "YYYY\\QN"			
Results:		PASS		
	TEST			
Input Specifications:	- Parameter to parseQuarter 2004\\Q4			
Procedural Steps:	Pass 2004\\Q4 to parseQuarter function and check if it throws an exception			
Expected Results of Case:	·			
ACTUAL RESULTS				
Output Specifications and comments :	·			

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#21
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

GENERAL INFORMATION			
Test Function Name :	testParseQuarterDoubleDash	Test Case Number:	#22
Test Case Description:	Tests parseQuarter function when it takes the format "YYYY QN"		QN"
Results:		FAIL	
TEST			
Input Specifications:	Parameter to parseQuarter "2004Q4"		
Procedural Steps:	Pass 2004Q4 to parseQuarter function and check if it throws an exception		
Expected Results of Case:	Throws TimePeriodFormatException		
ACTUAL RESULTS			
Output Specifications	It accep	ts the format	
and comments :	Comment : poor instructions if the function accepts more than one dash or not		

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#23
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

GENERAL INFORMATION			
Test Function Name :	testParseQuarterDoubleSlash	Test Case Number:	#24
Test Case Description:	Tests parseQuarter function when it takes the format "QN//YYYY"		
Results:		FAIL	
TEST			
Input Specifications:	Parameter to parseQuarter "Q4//2004"		
Procedural Steps:	Pass "Q4//2004" to parseQuarter function and check if it throws an exception		
Expected Results of Case:	Throws TimePeriodFormatException		
ACTUAL RESULTS			
Output Specifications	It accep	ts the format	
and comments :	Comment : poor instructions if the function accepts more than one dash or not		

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#25
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

GENERAL INFORMATION			
Test Function Name :	testParseQuarterDoubleSlash	Test Case Number:	#26
Test Case Description:	Tests parseQuarter function when it takes the format "QN_YYYY"		
Results:		FAIL	
TEST			
Input Specifications:	Parameter to parseQuarter "Q4 2004"		
Procedural Steps:	Pass "Q4 2004" to parseQuarter function and check if it throws an exception		
Expected Results of Case:	of Throws TimePeriodFormatException		
ACTUAL RESULTS			
Output Specifications	It accepts the format		
and comments :	Comment : poor instructions if the function accepts more than one dash or not		

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#27
Test Case Description:	Provide a brief description of v	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

GENERAL INFORMATION			
Test Function Name :	testParseQuarterDoubleSpace	Test Case Number:	#28
Test Case Description:	Tests parseQuarter function when it takes the format "QN,,YYYY"		
Results:		FAIL	
TEST			
Input Specifications:	Parameter to parseQuarter " QN,,YYYY"		
Procedural Steps:	Pass "QN,,YYYY" to parseQuarter function and check if it throws an exception		
Expected Results of Case:	Throws TimePeriodFormatException		
ACTUAL RESULTS			
Output Specifications	It accepts the format		
and comments :	Comment : poor instructions if the function accepts more than one dash or not		

GENERAL INFORMATION			
Test Function Name :		Test Case Number:	#29
Test Case Description:	Provide a brief description of	what functionality the case will t	est.
Results:	□Pas	ss □Fail	
	TEST		
Input Specifications:	Define each input required to execute the test case, and reference any required relationships between inputs.		
Procedural Steps:	Describe the sequences of actions necessary to prepare and execute the test case.  Provide detailed test procedures for each test case; explain precisely how each test case will be executed.		
Expected Results of Case:	Describe the outcome anticipated from the test case. Specify the criteria to be used to determine whether the item has passed or failed.		
	ACTUAL RESULTS		
Output Specifications and comments :	Define all of the outputs and features required of the test case and provide expected values. While executing the test, record and describe the visually observable outputs as they occur. Produce tangible evidence of the output such as a screen print. At the conclusion, describe the actual outcome. Indicate whether the test passed or failed, and identify any discrepancies between the expected results and the actual results.		

GENERAL INFORMATION				
Test Function Name :	testHashCode	Test Case Number:	#30	
Test Case Description:		Tests hashCode function if the two Quarter instances with the same quarter and the year, have the same hashCode or not		
Results:		PASS		
	TEST			
Input Specifications:	Two Quarter instances with the quarter = 1 and year = 2023			
Procedural Steps:	Creates two Quarter instances and test quality of hashcode for each of them			
Expected Results of Case:				
ACTUAL RESULTS				
Output Specifications and comments :				

GENERAL INFORMATION			
Test Function Name :	testHashCode2	Test Case Number:	#31
Test Case Description:	Tests hashCode function if the two Qua and have same year, do	arter instances have different on't have the same hashCode	quarter value
Results:		PASS	
	TEST		
Input Specifications:	Quarter	_1 (2,2023)	
	Quarter_2 (1,2023)		
Procedural Steps:	Creates two Quarter instances with different values and test if they have not same hashCode		
Expected Results of Case:	Don't have the same hashCode value		
ACTUAL RESULTS			
Output Specifications and comments :	Don't have the same hashCode value		

GENERAL INFORMATION			
Test Function Name :	testHashCode3 Test Case Number: #32		
Test Case Description:	Tests hashCode function if the two Qua and have different year, d	arter instances have different on on't have the same hashCode	quarter value
Results:		PASS	
	TEST		
Input Specifications:	Quarter_1 (2,2021)		
	Quarter_2 (1,2023)		
Procedural Steps:	Creates two Quarter instances with different values and test if they have not same hashCode		
Expected Results of Case:	Don't have the same hashCode value		
ACTUAL RESULTS			
Output Specifications and comments :	Don't have the same hashCode value		

GENERAL INFORMATION			
Test Function Name :	testGetFirstMillisecond Test Case Number: #33		#33
Test Case Description:	Tests the first millisecond in the first quarter of the year		
Results:		PASS	
	TEST		
Input Specifications:	Quarter (1, 2022)		
	Calender (01/01/2022 00:00:00:0000)		
Procedural Steps:	Set calender with (01/01/2022 00:00:00) and creates Quarter object with quarter 1 and year = 2022 and check if the milliseconds in the calender is the same as first millisecond in the quarter		
Expected Results of Case:	Same milliseconds		
ACTUAL RESULTS			
Output Specifications and comments :	Same milliseconds		

GENERAL INFORMATION			
Test Function Name :	testGetFirstMillisecond2 Test Case Number: #34		#34
Test Case Description:	Tests the first millisecond	in the last quarter of the year	
Results:		PASS	
	TEST		
Input Specifications:	Quarter (4, 2022)		
	Calender (01/10/2022 00:00:00:0000)		
Procedural Steps:	Set calender with (01/10/2022 00:00:00) and creates Quarter object with quarter 4 and year = 2022 and check if the milliseconds in the calender is the same as first millisecond in the quarter		
Expected Results of Case:	Same milliseconds		
ACTUAL RESULTS			
Output Specifications and comments :	Same milliseconds		

GENERAL INFORMATION			
Test Function Name :	testGetLastMillisecond	Test Case Number:	#35
Test Case Description:	Tests the last millisecond	in the first quarter of the year	
Results:	ı	PASS	
	TEST		
Input Specifications:	Quarter (1, 2022)		
	Calender (30/3/2022 23:59:59:9999)		
Procedural Steps:	Set calender with (30/3/2022 23:59:59:9999) and creates Quarter object with quarter 1 and year = 2022 and check if the milliseconds in the calender is the same as last millisecond in the quarter		
Expected Results of Case:	Same milliseconds		
ACTUAL RESULTS			
Output Specifications and comments :	Same milliseconds		

GENERAL INFORMATION			
Test Function Name :	testGetFirstMillisecond2 Test Case Number: #36		#36
Test Case Description:	Tests the last millisecond	in the last quarter of the year	
Results:	ı	PASS	
	TEST		
Input Specifications:	Quarter (4, 2022)		
	Calender (30/12/2022 23:59:59:9999)		
Procedural Steps:	Set calender with (30/12/2022 23:59:59:9999) and creates Quarter object with quarter 4 and year = 2022 and check if the milliseconds in the calender is the same as last millisecond in the quarter		
Expected Results of Case:	of Same milliseconds		
ACTUAL RESULTS			
Output Specifications and comments :	Same milliseconds		

GENERAL INFORMATION				
Test Function Name :	testGetQuarter	Test Case Number:	#37	
Test Case Description:	Tests if the function returns the correct quarter of the object			
Results:		PASS		
	TEST			
Input Specifications:	Quarte	Quarter (4,2500)		
Procedural Steps:	Creates quarter object with quarter =	4 and check if getQuarter return	rns 4 or not	
Expected Results of Case:	4			
ACTUAL RESULTS				
Output Specifications and comments :		4		

GENERAL INFORMATION			
Test Function Name :	testGetYear	testGetYear Test Case Number: #38	
Test Case Description:	Tests if the function returns the correct year of the object		
Results:		PASS	
TEST			
Input Specifications:	Quarter (2,2500)		
Procedural Steps:	Creates quarter object with year = 2500 and check if GetYear returns 2500 or not		
Expected Results of Case:	2500		
ACTUAL RESULTS			
Output Specifications and comments :		2500	

GENERAL INFORMATION				
Test Function Name :	testPrevious	Test Case Number:	#39	
Test Case Description:		Tests if the function previous() returns the previous Quarter when the quarter have the normal value = 2 and normal year = 2023		
Results:		PASS		
TEST				
Input Specifications:	Quarte	Quarter (2,2023)		
Procedural Steps:	Creates quarter with quarter value = 2 and year =2023, and check if the previous function returns (1,2023) or not			
Expected Results of Case:	Q2/2023			
ACTUAL RESULTS				
Output Specifications and comments :	Q	2/2023		

GENERAL INFORMATION				
Test Function Name :	testPrevious2 Test Case Number: #40			
Test Case Description:		Tests if the function previous() returns the previous Quarter when the quarter have the minimum quarter value which is 1 and minimum year = 1900		
Results:	ı	PASS		
TEST				
Input Specifications:	Quarter (1,1900)			
Procedural Steps:	Creates quarter with quarter value = 1 and year =1900, and check if the previous function returns null or not			
Expected Results of Case:	ts of NULL			
ACTUAL RESULTS				
Output Specifications and comments :	1	NULL		

GENERAL INFORMATION				
Test Function Name :	testPrevious3	Test Case Number:	#41	
Test Case Description:	Tests if the function previous() returns t the minimum quarter value w	the previous Quarter when the hich is 1 and normal year = 19		
Results:	ı	PASS		
	TEST			
Input Specifications:	Quarter (1,1901)			
Procedural Steps:	Creates quarter with quarter value = 1 and year =1901, and check if the previous function returns (4, 1900) or not			
Expected Results of Case:	Q4/1901			
ACTUAL RESULTS				
Output Specifications and comments :	Q	4/1901	_	

GENERAL INFORMATION					
Test Function Name :	testPrevious4	testPrevious4 Test Case Number: #42			
Test Case Description:	Tests if the function previous() returns the maximum qu	the previous Quarter when the arter value which is 4	quarter have		
Results:	ı	PASS			
TEST					
Input Specifications:	Quarter (4,1990)				
Procedural Steps:	Creates quarter with quarter value = 1 and year =1900, and check if the previous function returns null or not				
Expected Results of Case:	of Expected result for the quarter is 3				
ACTUAL RESULTS					
Output Specifications and comments :	The actual resu	It for the quarter is 3			

GENERAL INFORMATION				
Test Function Name :	testNext	Test Case Number:	#43	
Test Case Description:	Tests the behavior of the function nexton year is maxing	() if the maximum quarter value num value = 9999	e = 4 and the	
Results:		PASS		
	TEST			
Input Specifications:	Quarte (4,9999)			
Procedural Steps:	Creates quarter with quarter value = 4 and year =9999, and check if the next function returns null or not			
Expected Results of Case:	·			
ACTUAL RESULTS				
Output Specifications and comments :	<b>^</b>	NULL	_	

GENERAL INFORMATION			
Test Function Name :	testNext2	Test Case Number:	#44
Test Case Description:	Tests the behavior of the function nex maximum	xt() if the quarter value = 3 and n value = 9999	the year is
Results:	ı	PASS	
TEST			
Input Specifications:	Quarte (3,9999)		
Procedural Steps:	Creates quarter with quarter value = 3 and year =9999, and check if the next function returns (4,9999)		
Expected Results of Case:	Q4/9999		
ACTUAL RESULTS			
Output Specifications and comments :	Q	4/9999	

GENERAL INFORMATION				
Test Function Name :	testGetSerialIndex	Test Case Number:	#45	
Test Case Description:	Check if serialIndex calculate correctly or not			
Results:	ı	PASS		
	TEST			
Input Specifications:	Quarter (1,1990)			
Procedural Steps:	Creates quarter (1,1990) and check if getSerialIndex returns 8093			
Expected Results of Case:	8093			
ACTUAL RESULTS				
Output Specifications and comments :	Comment: Poor documentation as it tal	8093 kes me too long to discover the e function	e calculations	

GENERAL INFORMATION			
Test Function Name :	testEquals Test Case Number: #46		
Test Case Description:	Tests equals() function when the two quarters instances have the same quarter and the same year		
Results:	ı	PASS	
	TEST		
Input Specifications:	quarter _1 (2,2023)		
	quarter _2 (2,2023)		
Procedural Steps:	Creates two quarter instances with the same quarter and year and check if equals function returns true or not		
Expected Results of Case:			
	ACTUAL RESULTS		
Output Specifications and comments :	7	TRUE .	

GENERAL INFORMATION			
Test Function Name :	testEquals2	Test Case Number:	#47
Test Case Description:	Tests equals() function when the two q and the	uarters instances have the diffed different year	erent quarter
Results:	ı	PASS	
	TEST		
Input Specifications:	quarter _1 (3,1990)		
	quarter	_2 (2,2023)	
Procedural Steps:	Creates two quarter instances with the different quarter and year and check if equals function returns false or not		
Expected Results of Case:	f FALSE		
ACTUAL RESULTS			
Output Specifications and comments :	F	ALSE	

GENERAL INFORMATION				
Test Function Name :	testCompareTo	Test Case Number:	#48	
Test Case Description:	Tests compareTo() function when compare the quarter object to other quarter objects			
Results:	ı	PASS		
	TEST			
Input Specifications:	quarte	er (2,2023)		
	Quartei	r_1 (3,2023)		
	Quarter	r_2 (1,2023)		
	Quarter_3 (2,2023)			
Procedural Steps:	Crates the four quarter instances and check compareTo function when compare			
	(quarter,Quarter_1)			
	(quarter,Quarter_2)			
	(quarter,Quarter_3)			
Expected Results of	Expected less than zero In case (quarter,Quarter_1)			
Case:	Expected grater than zero In case (quarter,Quarter_2)			
	Expected zero In case (quarter,Quarter_3)			
	ACTUAL RESULTS			
Output Specifications	less than zero In case (quarter,Quarter_1)			
and comments :	grater than zero In case (quarter,Quarter_2)			
	zero In case (	quarter,Quarter_3)		