	The City College of New York  Department of Compute Science - CSc 221; Software Design Laboratory - 3 <sup>16</sup> Exam  O11 (911) Juya of Compute Science - CSc 221; Software Design Laboratory - 3 <sup>16</sup> Exam	
	Q1) (6p) Java offers different methods to write data <sup>(i)</sup> Persistent storage (e.g. Har Disk Drive). One of these methods 1AXB	
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ob classor.	Unmarshal	
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decto (4)	Q2) (6p) Java streams offer Jamans	
	Q2) (6p) Java streams offer, lazy and eager operations. Briefly describe each type's return and behavior.	
clas does		
class' methods.	Free	
overridden.	Eager Operations:	
object (		
	Q3) (6p) An example of a generic method is public static < T > void printArr(T[ ] inputArr). (1) What are What happens to T once the program compiler?	
	advantages of using generic method is public static $< T > void printArr(T[ ] inputArr)$ . (1) What are What happens to T once the program compiles?	(3)
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0	Q4) (13p) Consider the following code block and answer the questions that follow.  In Section 1. [1, -5, -3, 3, 0, 7, 9, 12]	
To'	int values $[] = \{1, -5, -3, 3, 0, 7, 9, 11\};$	
	intRange, for Fach (must ream, of (values);	
	A. (op) Rewrite the above code and system. out. printing	
	int values [ ] = { 1, -5, -3, 3, 0, 7, 9, 11 };	
-		
J (-3)		
57-	B. (3p) Show the <u>last three</u> printed lines from the code above?	
		her
-	C. (4p) Using the intRange variable only, print the maximum of the values?	
(-4)	the directing variable only, print the maximum of the values:	
14	Q5) (19p) Consider a plain text file consisting of multiple lines. Each line contains exactly one word. <u>Using the Java</u>	
	streams library ONLY complete the main method such that:	
	<ol> <li>Using the Files class, read the content of the file</li> <li>Exclude words that have less than 3 characters – Don't use an IF statement</li> </ol>	
	3. Convert each word to upper case and add the values to the stack.	
	4. Finally print the values of the stack.	
2	public class FileTester ( public static void main(String() args) throws IOException (	
5	Path path = Paths.get("Words.txt");	
	Stack <string> stack =</string>	
		1
100		
		21
		100
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Form A