

	determine if the code fragment below is legal or not , if it's illegal state the reason		
1	<pre>public interface A { .. } . . public interface B extends interface A {...}</pre>	illegal	legal
2	<pre>public interface One {...} public interface two {...} pubic class myClass implements One , Two {...}</pre>	illegal	legal
3	<pre>public interface A { public int Num; public void Sum(int x , int y); }</pre>	illegal	legal
4	<pre>Public class Ex1 extends Exception {...} Public class Ex2 extends Ex1 {...} Public class Midterm2 { Public void methodOne(int num) throws Ex1 { if(num < 0) throw new Ex1 ("negative Number "); Else Throw new Ex2 ("positive Number"); }}</pre>	illegal	legal
5	Primivite data types and Objects can be written in one file	(A) yes (B) No	
6	which of the following statments is true about serializable in java	(a)it is an interface with no method (b) if a class implements Serializable , it indicates that the Object of this class should be able be transformed into a sequence of Byte (c)Serializable classes Object can be stored in file (d)All of the above	
7	Opening a file that does not exist for output will	(a)Cause an IOException (b) Not cause an exception but will not perform the write opertion (c)will execute properly and produce the output file	

8	<pre> import java.util.* ; Public class Test { Public static void main(String [] args) { method("-3"); } Public static void method(String s){ Try { System.out.print("Your input is : "); Int z = Integer.parseInt(s); if(z<0) throw new UserException (s + " is less than 0 "); System.out.print(z); }catch(Exception e){ throw e ;} Finally { System.out.print("\nFinally of method"); } System.out.print("After finally of method"); }} Class UserException extends Exception { UserException(String message) { </pre>	<p>(a) cause a compilation error (missing throws clause in method's header</p> <p>(b) Your input is : -3 is less than 0 Finally of method</p> <p>(c) Your input is : -3 is less than 0 Finally of method After finally of method</p> <p>(d) Your input is : -3 Finally of method After finally of method</p>
9	<p>What is the name of exception that may be thrown ?</p> <pre> Public class test { Public static void m20() { String[] list = {"I" , "Love" , "Java" , "(2)"}; Int x = Integer.parseInt(list[4]); }} </pre>	<p>(A) inputMismatchException</p> <p>(B) NumberFormatException</p> <p>(C) ArrayIndexOutOfBoundsException</p> <p>(D) None of the Above</p>
10	<p>What is the outfit of the following program (if any) ?</p> <pre> File Obj = new File("/java/Midterm2.text"); System.out.print(Obj.isFile()); </pre>	<p>(A) true</p> <p>(B) false</p> <p>(C) None of the above</p>

show the Output :		
<pre> Public class trace { Public static void main(String [] args){ }try { Validate(-4); System.out.println("Problem solved"); }catch(IllegalArgumentException e){ System.out.println(e.getMessage()); }catch(Exception e) { System.out.println("Super exception caught"); } } Public static void validate(int x){ Try { if(x<0) Throw new IllegalArgumentException ("number is Negative!" System.out.println("Valid Number "); }catch(IllegalArgumentException ex){ System.out.println("Negative Numbers not allowed"); Throw ex ; } }} </pre>		<p>negative numbers not allowed</p> <p>Number is negative</p>
<pre> Public class Trace2 { Public static void main(String [] args){ Try { method("hi"); System.out.println("after method"); }catch(NumberFormatException ex){ System.out.println("main"); } } Public static void method(String val){ Try{ Int l = Integer.parseInt(val); }finally { System.out.println("finally"); } System.out.println("Bye"); } } </pre>		<p>Finally Main</p>

<pre>Public class Trace3 { Static int x = 5 ; Public static void main(String [] args){ Try{ x = myMethod(); }catch(Exception e){ System.out.println("Catch Exception "); X-- ; } //catch System.out.println("Main : +x "); } //main Public static int myMethod(){ Try{ if(x >= 5) throw new Exception() ; x++; Return x ; }catch(RuntimeException e){ System.out.println("Catch RuntimeException"); x = 0 ; } //catch Finally { x =x*2 ; } //finally Return x ; } }</pre>	<p>Catch exception</p> <p>Main : 9</p>
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