Question #3

For each example of code, respond whether or not it will compile. If it compiles, please respond whether or not it will run without errors. If it runs without errors and has a return value, please write the return value.



}

// Code — Each group of lines is independent (new Y()).method("hi");	Com	piles?	Runs without errors?	Return value?	
This method is private for Y		NO			
<pre>(new Z()).method(); Works</pre>	YES		YES	0	
<pre>((Z) (new Y())).method("yo"); You promise it is a Z, but it isn't so it has a runtime error</pre>	YES		NO		
<pre>X x1 = new Z(); Y y1 = (Z) x1; Z is a subclass of Y so you can cast to a Z and set equal to a Y reference.</pre>	YES		YES		
<pre>X[] xarr = {new Y(), new X()}; You can't make a new X() because it is an interface.</pre>		NO			
Y[] yarr = {new Y(), new Z()}; Works -Z is a subclass of Y so you can put it in a Y array	YES		YES		
<pre>((Y) (new Z())).method("hey"); Y's do not have a public method that takes a string.</pre>		NO			
<pre>X x2 = new Z(); Z z2 = (Y) x2; z2.method(); you can't cast to a Y and then set it to a z. You must cast</pre>		NO			
<pre>to a Z. X x3 = new Z(); x3.method("hello"); X doesn't have a method that takes in a String.</pre>		NO			9
}					