Quiz 2

This quiz tests your knowledge of Java language semantics. Get a print out of this when you come to the class.

* First try answering without running the program.
* Then run the program to check if your understanding was indeed correct.
* Enter both the answers in the last column and submit.

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| **Concept** | **Program** | **Your answer first, followed by the actual answer** |
| Dynamic  dispatch/  Method  overloading  / Runtime  Polymorphi  sm |  | **Predicted Output:**No output is given out and no error is given. Since method overloading occurs and nothing is done.  **Output:**No Output |
| Dynamic dispatch/method overloading |  | **Predicted Output:**No we can’t call the method fumction. Since it doesn’t understand which method function to call. Method overloading doesn’t occur.  **Output:**  Duplicate method method(int) in type OTest |
| Instance method accessing static variable & static method |  | **Predicted Output:**Yes,  static method  **Output:**  static method |
| Static method accessing instance variable & instance methoods |  | **Predicted Output:**  We cannot call the method nor use the var because they are not static.  **Output:**  Cannot make a static reference to the non-static field var  Cannot make a static reference to the non-static method instanceMethod() from the type QTest |
| Working with null object |  | **Predicted Output:**Error  The memory has not been allocated.  **Output:**  The local variable r may not have been initialized |
| Working with null array |  | **Predicted Output:**Error  s hasn’t been given any memory and has not been initialized  **Output:**  Syntax error, insert "VariableDeclarators" to complete LocalVariableDeclaration |
| Working with null array element |  | **Predicted Output:**Error  Only the object array is created. But the objects were not given memory.  **Output:**  Exception in thread "main" java.lang.NullPointerException |
| Crossing array boundary |  | **Predicted Output:**  Error  we did not allocate memory for the individual objects.So,we are not able to intialize them  **Output:**  Exception in thread "main"java.lang.NullPointerException |
| Default Constructor |  | **Predicted Output:**  Error  here we have written constructor to only int x we did not written for default constructor  **Output:**  The constructor V() is undefined |
| Private constructor |  | **Predicted Output:**  Error  here we have declared the constructor as private.So we cannot access that construct  **Output:**  he constructor S() is not visible |
| Empty.java file name |  | **Predicted Output:**  we can make the class but it does not have a scope similar to public  if we compile it with javac .java without giving the file name it cannot access the file.so it is not complied  **Output:**  file not found |
| Static block with main() |  | **Predicted Output:**  From static block  Hello main  (as static block is called first it will be printed first)  **Output:**  From static block  Hello main |
| Static bock without main() |  | **Predicted Output:**  From static block  **Output:**  Main method not found in class quiz.ZTest, please define the main method as:  public static void main(String[] args) |

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