Java: Classes and Methods -II

Quiz

Question 1

```
public class Test {
public static void main(String [] args) {
doStuff(1);
doStuff(1,2);
}
// insert code here
}
```

Which, inserted at line 6, will compile?

A. `static void doStuff(int... doArgs) { }`

B. `void doStuff(int[] doArgs) { }`

C. `static void doStuff(int... doArgs, int y) { }`

D. `static void doStuff(int x, int... doArgs) { }`

Question 1

```
public class Test {
public static void main(String [] args) {
doStuff(1);
doStuff(1,2);
}
// insert code here
}
```

Which, inserted at line 6, will compile?

A. `static void doStuff(int... doArgs) { }`

B. `void doStuff(int[] doArgs) { }`

C. `static void doStuff(int... doArgs, int y) { }`

D. `static void doStuff(int x, int... doArgs) { }`

Question 2

```
public class Test {
public static void m1(boolean b1){
      System.out.print("Boolean");}
public static void m1(byte b1){
      System.out.print("byte ");}
public static void m1(int i1) {
      System.out.print("int ");}
public static void main(String[] args) {
   byte b1; m1(b1 = 1);  m1(b1 == 1);
}}
```

What is the result of attempting to compile and run the program?

A. Prints: int Boolean

B. Prints: byte Boolean

C. Prints: Boolean Boolean

D. Compilation error

Question 2

```
public class Test {
public static void m1(boolean b1){
      System.out.print("Boolean");}
public static void m1(byte b1){
      System.out.print("byte ");}
public static void m1(int i1) {
      System.out.print("int ");}
public static void main(String[] args) {
   byte b1; m1(b1 = 1);  m1(b1 == 1);
}}
```

What is the result of attempting to compile and run the program?

A. Prints: int Boolean

B. Prints: byte Boolean

C. Prints: Boolean Boolean

D. Compilation error

Question 3

```
public class Test{
public static void m(String s){
   System.out.print("String");}
public static void m(Test s){
   System.out.print("Test");}
public static void main(String str[]){
m(null);
}
```

What is the result of compilation or execution of the code?

A. Prints `String`

B. Prints `Test`

C. Results in compilation error

D. Results in runtime error

Question 3

```
public class Test{
public static void m(String s){
   System.out.print("String");}
public static void m(Test s){
   System.out.print("Test");}
public static void main(String str[]){
m(null);
}
```

What is the result of compilation or execution of the code?

A. Prints `String`

B. Prints `Test`

C. Results in compilation error

D. Results in runtime error

Question 4

```
public class Test1{
int[] i1 = {1}, i2 = {3};
    void m1() {
     m2(i1, i2);
     System.out.print(i1[0] + "," + i2[0]);
    }
    void m2(int[] i1, int[] i2) {
    int[] i3 = i1;
    this.i1 = i2;
    this.i2 = i3;
    }
    public static void main (String[] args) {
     new Test1().m1();
   }}
```

A. Prints:0,0
B. Prints:1,1
C. Prints:1,3
D. Prints : 3,1

HCL

Question 4

```
public class Test1{
int[] i1 = {1}, i2 = {3};
    void m1() {
     m2(i1, i2);
     System.out.print(i1[0] + "," + i2[0]);
    }
    void m2(int[] i1, int[] i2) {
    int[] i3 = i1;
    this.i1 = i2;
    this.i2 = i3;
    }
    public static void main (String[] args) {
     new Test1().m1();
   }}
```

A. Prints:0,0

B. Prints:1,1

C. Prints:1,3

D. Prints : 3,1

HCL

Question 5

Overloading requires

A. Different method signatures

B. Same method name but different argument list

C. Same method name and number of arguments but different order of arguments

D. Same name but different arguments and return type.

Question 5

Overloading requires

A. Different method signatures

B. Same method name but different argument list

C. Same method name and number of arguments but different order of arguments

D. Same name but different arguments and return type.

Question 6

```
public class Course{
2.public static void main(String argv[]){
3.new Course(argv);
4.}
5. public Course(String ... students){
6.String s;
7.for(String s: students)
8.{
9.System.out.println(s);
10.}}}
```

What is the result of attempting to compile and run the program?

A. Compilation error in line 6.
B. Compilation error in line 7.
C. The code compiles if line 6 is removed.
D. The code compiles if line 7 is changed to `for(s: students)`

Question 6

```
public class Course{
2.public static void main(String argv[]){
3.new Course(argv);
4.}
5. public Course(String ... students){
6.String s;
7.for(String s: students)
8.{
9.System.out.println(s);
10.}}}
```

What is the result of attempting to compile and run the program?

A. Compilation error in line 6.

B. Compilation error in line 7.

C. The code compiles if line 6 is removed.

D. The code compiles if line 7 is changed to `for(s: students)`

Question 7

```
public class Test {
public static void main(String argv[]) {
call(1);
}
 public static void call(int... i){
        System.out.println("int...");}
 public static void call(long i){
        System.out.println("long");}
public  static void call(byte i){
        System.out.println("byte");}
}
```

What will be printed?

A. `int...`

B. `long`

C. `byte`

D. None of the above

Question 7

```
public class Test {
public static void main(String argv[]) {
call(1);
}
 public static void call(int... i){
        System.out.println("int...");}
 public static void call(long i){
        System.out.println("long");}
public  static void call(byte i){
        System.out.println("byte");}
}
```

What will be printed?

A. `int...`

B. `long`

C. `byte`

D. None of the above

Question 8

```
public class Test1{
i=20;
}
public static void main (String[] args) {
      Test1 t= new Test1();
      t.i=10;
      System.out.println(t.i);
   }
private int i;
}
```

What is the result of attempting to compile and run the program?

A. prints 10

B. prints 20

C. Compilation error because i is not accessible from main()

D. Compilation error because i is not accessible in initialization block

Question 8

```
public class Test1{
i=20;
}
public static void main (String[] args) {
      Test1 t= new Test1();
      t.i=10;
      System.out.println(t.i);
   }
private int i;
}
```

What is the result of attempting to compile and run the program?

A. prints 10

B. prints 20

C. Compilation error because i is not accessible from main()

D. Compilation error because i is not accessible in initialization block

Question 9

```
public class Test1{
private int i=init();
{i=30;}
public int init(){return 20;}
public static void main (String[] args) {
      Test1 t= new Test1();
      System.out.println(t.i);
     }
}
```

What will the code print?

A. 0

B. 20

C. 30

D. None of the above

Question 9

```
public class Test1{
private int i=init();
{i=30;}
public int init(){return 20;}
public static void main (String[] args) {
      Test1 t= new Test1();
      System.out.println(t.i);
     }
}
```

What will the code print?

A. 0

B. 20

C. 30

D. None of the above

Question 10

```
public class Test1{
{i=30;}
private int i=init();
public int init(){return 20;}
public static void main (String[] args) {
      Test1 t= new Test1();
      System.out.println(t.i);
     }
}
```

What will the code print?

A. 0

B. 20

C. 30

D. None of the above

Question 10

```
public class Test1{
{i=30;}
private int i=init();
public int init(){return 20;}
public static void main (String[] args) {
      Test1 t= new Test1();
      System.out.println(t.i);
     }
}
```

What will the code print?

A. 0

B. 20

C. 30

D. None of the above

Question 11

Assume the below give code snippet.

```
public class Test1{
public static void main (String[] args) {
int x=30;
        System.out.printf("___", x);

    }}
```

What should be inserted in place of blanks for the code to print +1e

A. `-%d`

B. `+%x`

C. `+%h`

D. `-%o`

Question 11

Assume the below give code snippet.

```
public class Test1{
public static void main (String[] args) {
int x=30;
        System.out.printf("___", x);

    }}
```

What should be inserted in place of blanks for the code to print +1e

A. -%d

B. +%x

C. +%h

D. -%o

Question 12

```
public class Test1{
public static void f(byte... i) {
System.out.print(i.length);
}
public static void f(Test1... i) {
System.out.print(i.length);
}
public static void main (String[] args) {
f(null);
 }}
```

What is the result of attempting to compile and run the program?

A. Prints: 0

B. Throws **`NullPointerException`** at runtime

C. Compile-time error – ambiguous methods call

D. Throws **`NullPointerException`** at compile time

Question 12

```
public class Test1{
public static void f(byte... i) {
System.out.print(i.length);
}
public static void f(Test1... i) {
System.out.print(i.length);
}
public static void main (String[] args) {
f(null);
 }}
```

What is the result of attempting to compile and run the program?

A. Prints: 0

B. Throws **`NullPointerException`** at runtime

C. Compile-time error – ambiguous methods call

D. Throws **`NullPointerException`** at compile time

Question 13

```
public class Test1{
public static void f(double... i) {
System.out.print(i.length);
}
```

What is the result of attempting to compile and run the program?

A. Prints: 2

B. Prints: 0

C. Compilation error

D. Runtime error

Question 13

```
public class Test1{
public static void f(double... i) {
System.out.print(i.length);
}
```

What is the result of attempting to compile and run the program?

A. Prints: 2

B. Prints: 0

C. Compilation error

D. Runtime error

Question 14

```
1. public class Test1{
2. String... d;
3. public static void f(String... d) {
4. this.d=d;
5. }
6. public static void main (String[] args) {
7. f(args);
8.  }
9. }
```

Compilation error occurs at which line?

A. 2

B. 4

C. 7

D. None of the above

Question 14

```
1. public class Test1{
2. String... d;
3. public static void f(String... d) {
4. this.d=d;
5. }
6. public static void main (String[] args) {
7. f(args);
8.  }
9. }
```

Compilation error occurs at which line?

A. 2

B. 4

C. 7

D. None of the above

Question 15

What is the result of compiling and executing the code if the code is compiled using the command **`java Test1 1 2 3 4`**

```
1. public class Test1{
2. static String[] d;
3. public  static void f(String... d) {
4. this.d=d;
5. }
6. public static void main (String[] args) {
7. f(args);
8. for(String s:d)
9. System.out.print(s);
10.}}
```

A. Prints 1 2 3 4

B. Prints 1234

C. Compilation error at line 4

D. If line 4 is changed to Test1.d=d; code compiles and prints 1234

Question 15

What is the result of compiling and executing the code if the code is compiled using the command **`java Test1 1 2 3 4`**

```
1. public class Test1{
2. static String[] d;
3. public  static void f(String... d) {
4. this.d=d;
5. }
6. public static void main (String[] args) {
7. f(args);
8. for(String s:d)
9. System.out.print(s);
10.}}
```

A. Prints 1 2 3 4

B. Prints 1234

C. Compilation error at line 4

D. If line 4 is changed to Test1.d=d; code compiles and prints 1234