

Examen de Certificación I

1. Which are true? (Choose all that apply.)
- A. "X extends Y" is correct if and only if X is a class and Y is an interface.
 - B. "X extends Y" is correct if and only if X is an interface and Y is a class.
 - C. "X extends Y" is correct if X and Y are either both classes or both interfaces.
 - D. "X extends Y" is correct for all combinations of X and Y being classes and/or interfaces.

2. class Rocket {
 private void blastOff() {
 System.out.print("bang ");
 }
}
public class Shuttle extends Rocket {
 public static void main(String[] args) {
 new Shuttle().go();
 }
 void go() {
 blastOff(); // Rocket.blastOff(); // line A
 }
 private void blastOff() { System.out.print("sh-bang");
 }
}

Which are true? (Choose all that apply.)

- A. As the code stands, the output is bang
 - B. As the code stands, the output is sh-bang
 - C. As the code stands, compilation fails.
 - D. If line A is uncommented, the output is bang bang
 - E. If line A is uncommented, the output is sh-bang bang
 - F. If line A is uncommented, compilation fails
3. Given that the for loop's syntax is correct, and given:
- ```
import static java.lang.System.*;
class _ {
 static public void main(String[] __A_V_) {
 String $ = "";
 for(int x=0; ++x < __A_V_.length;) // for loop
 $ += __A_V_[x];
 out.println($);
 }
}
```
- And the command line: java \_ - A .  
What is the result?
- A. -A
  - B. A.
  - C. -A.
  - D. \_A.
  - E. \_-A.
  - F. Compilation fails
  - G. An exception is thrown at runtime

4. Given:

```
public class Frodo extends Hobbit
{
 public static void main(String[] args) {
 int myGold = 7;
 System.out.println(countGold(myGold, 6));
 }
}

class Hobbit {
 int countGold(int x, int y) { return x + y; } //line 11
}
```

What is the result?

- A. 13
- B. Compilation fails due to multiple errors
- C. Compilation fails due to an error on line 6
- D. Compilation fails due to an error on line 7**
- E. Compilation fails due to an error on line 11

5. Which options are valid on the javac command without considering module options?

(Choose all that apply.)

- A. -c
- B. -C
- C. -cp**
- D. -CP
- E. -d**
- F. -f
- G. -p

6. Suppose we have the following class in the file  
/my/directory/named/A/Bird.java.

Which of the answer options replaces INSERT CODE HERE when added independently if we

compile from /my/directory? (Choose all that apply.)

INSERT CODE HERE

```
public class Bird { }
```

- A. package my.directory.named.a;
- B. package my.directory.named.A;
- C. package named.a;
- D. package named.A;**
- E. package a;
- F. package A;

7. Which answer options represent the order in which the following statements can be assembled into a program that will compile successfully? (Choose all that apply.)

X: class Rabbit {}

Y: import java.util.\*;

Z: package animals;

A. X, Y, Z

B. Y, Z, X

C. Z, Y, X

D. Y, X

E. Z, X

F. X, Z

8. Which are valid ways to specify the classpath when compiling? (Choose all that apply.)

A. -cp

B. -classpath

C. --classpath

D. -class-path

E. --class-path

9. Given that the Integer class is in the java.lang package, and given:

1. // insert code here

2. class StatTest {

3. public static void main(String[] args) {

4. System.out.println(Integer.MAX\_VALUE);

5. }

6. }

Which, inserted independently at line 1, compiles? (Choose all that apply.)

A. import static java.lang;

B. import static java.lang.Integer;

C. import static java.lang.Integer.\*;

D. static import java.lang.Integer.\*;

E. import static java.lang.Integer.MAX\_VALUE;

F. None of the above statements are valid import syntax

10. Given:

4. class Announce {

5. public static void main(String[] args) {

6. for(int \_\_x = 0; \_\_x < 3; \_\_x++) ;

7. int #1b = 7;

8. long [] x [5];

9. Boolean []ba[];

10. }

11. }

What is the result? (Choose all that apply.)

A. Compilation succeeds

B. Compilation fails with an error on line 6

C. Compilation fails with an error on line 7

D. Compilation fails with an error on line 8

E. Compilation fails with an error on line 9