public class Main{

private int i = 1;

public static void main(String argv[]){

int i = 2;

Main s = new Main ();

s.someMethod();

}

public static void someMethod(){

System.out.println(i);

}

}

2.

Which of the following lines will compile without warning or error?

char d="d";

float f=3.1415;

int i=34;

byte b=257;

boolean isPresent=true;

3.

Which of the following will return the position of the first letter a where the string s contains "banana"?

lastIndexOf(2,s);

s.indexOf('a');

s.charAt(2);

indexOf(s,'v');

4.

String s1="Java";

String s2="java";

if(expression) {

System.out.println("Equal");

} else {

System.out.println("Not equal");

}

s1==s2

s1.matchCase(s2)

s1.equalsIgnoreCase(s2)

s1.equals(s2)

5.

Which of the following statements will compile without an error?

int myArray[];

int myArray[5];

int myArray[5] = {1,2,3,4,5};

int myArray[] = {1,2,3,4,5};

6.

Which of the following statements can be used to determine if cat can be found in the list?

ArrayList<String> list = new ArrayList<>();

list.add("dog");

list.add("cat");

list.add("frog");

options:-

list.contains("cat")

list.hasObject("cat")

list.indexOf("cat")

list.indexOf(1)

7.

Which of the following statement will compile?

int i = 5;

int j = 10;

options:-

while(i < j) {}

while(i) {}

while(i = 5) {}

while((i = 12)!=5) {}

8.

Which of the following do/while loops will compile without errors?

a. int i = 0;

do {

System.out.println(i++);

} while (i < 50);

b. int i = 0;

do

System.out.println(i++);

while (i < 50);

c. int i = 0;

do

System.out.println(i++);

while i < 50;

d. i = 0;

do

System.out.println(i);

i++;

i++;

i++;

while (i < 50);

9.

Which of the following statements are correct if they replace the comment line?

public class Main{

public int i;

public static void main(String argv[]){

Main sc = new Main();

// Comment line

}

}

System.out.println(i);

System.out.println(sc.i);

System.out.println(Main.i);

System.out.println((new Main()).i);

10.

Which is 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

11.

Which method names follow the JavaBeans standard? (Choose all that apply.)

A. addSize

B. getCust

C. deleteRep

D. isColorado

E. putDimensions

12.

Given:

1. class Voop {

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

3. doStuff(1);

4. doStuff(1,2);

5. }

6. // insert code here

7. }

Which, inserted independently at line 6, will compile? (Choose all that apply.)

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

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

C. static void doStuff(int doArgs...) { }

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

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

13.

Given:

1. enum Animals {

2. DOG("woof"), CAT("meow"), FISH("burble");

3. String sound;

4. Animals(String s) { sound = s; }

5. }

6. class TestEnum {

7. static Animals a;

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

9. System.out.println(a.DOG.sound + " " + a.FISH.sound);

10. }

11. }

What is the result?

A. woof burble

B. Multiple compilation errors

C. Compilation fails due to an error on line 2

D. Compilation fails due to an error on line 3

E. Compilation fails due to an error on line 4

F. Compilation fails due to an error on line 9

14.

Given two files:

1. package pkgA;

2. public class Foo {

3. int a = 5;

4. protected int b = 6;

5. public int c = 7;

6. }

3. package pkgB;

4. import pkgA.\*;

5. public class Baz {

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

7. Foo f = new Foo();

8. System.out.print(" " + f.a);

9. System.out.print(" " + f.b);

10. System.out.print(" " + f.c);

11. }

12. }

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

A. 5 6 7

B. 5 followed by an exception

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

F. Compilation fails with an error on line 10

15.

Given:

1. public class Electronic implements Device

{ public void doIt() { } }

2.

3. abstract class Phone1 extends Electronic { }

4.

5. abstract class Phone2 extends Electronic

6.{ public void doIt(int x) { }

7. class Phone3 extends Electronic implements Device

{ public void doStuff() { } }

8.

9. interface Device { public void doIt(); }

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

A. Compilation succeeds

B. Compilation fails with an error on line 1

C. Compilation fails with an error on line 3

D. Compilation fails with an error on line 5

E. Compilation fails with an error on line 7

F. Compilation fails with an error on line 9

16.

Given:

4. class Announce {

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

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

7. int #lb = 7;

8. long [] x [5];

9. Boolean []ba[];

10. enum Traffic { RED, YELLOW, GREEN };

11. }

12. }

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

F. Compilation fails with an error on line 10

17.

Given:

3. public class TestDays {

4. public enum Days { MON, TUE, WED };

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

6. for(Days d : Days.values() )

7. ;

8. Days [] d2 = Days.values();

9. System.out.println(d2[2]);

10. }

11. }

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

A. TUE

B. WED

C. The output is unpredictable

D. Compilation fails due to an error on line 4

E. Compilation fails due to an error on line 6

F. Compilation fails due to an error on line 8

G. Compilation fails due to an error on line 9

18.

Given:

4. public class Frodo extends Hobbit {

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

6. Short myGold = 7;

7. System.out.println(countGold(myGold, 6));

8. }

9. }

10. class Hobbit {

11. int countGold(int x, int y) { return x + y; }

12.}

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

19.

What will be output by the following code?

int i;

int j;

for (i=1; i < 4; i++) {

for (j=2; j < 4; j++) {

if (j == 3) {

continue;

}

System.out.println("i: " + i + " j: " + j);

}

}

a. i: 1 j: 2

i: 2 j: 2

i: 3 j: 2

b. i: 1 j: 3

i: 2 j: 3

i: 3 j: 3

c. i: 1 j: 1

i: 2 j: 1

i: 3 j: 1

20.

Given:

1. ClassA has a ClassD

2. Methods in ClassA use public methods in ClassB

3. Methods in ClassC use public methods in ClassA

4. Methods in ClassA use public variables in ClassB

Which is most likely true? (Choose the most likely.)

A. ClassD has low cohesion

B. ClassA has weak encapsulation

C. ClassB has weak encapsulation

D. ClassB has strong encapsulation

E. ClassC is tightly coupled to ClassA