**Java Questions**

1. All java classes are subclasses of
2. java.lang.Class  
   B) java.util.Name  
   **C) [java.lang.Object](https://courses.cs.washington.edu/courses/cse341/98au/java/jdk1.2beta4/docs/api/java/lang/Object.html" \t "_blank)**  
   D) java.awt.Window
3. **What gets printed when the following code is compiled and run with the following command -**

**C:\> java test 2**

**Select the one correct answer.**

public class Q2 {

public static void main(String args[]) {

Integer intObj=Integer.valueOf(args[args.length-1]);

int i = intObj.intValue();

if(args.length > 0)

System.out.println(i);

if(args.length > 2)

System.out.println(i - 1);

}

}

1. **2**
2. **1**
3. test
4. Exception
5. What is the output of the following statement choose one.

"SAP ABAP BootCamp". substring(2,5);

1. AP
2. P B
3. **P A**
4. StringOutOfBoundsException
5. What is the output of the following statement choose one.

System.out.println(23 ^ 14);

1. **25**
2. **23**
3. **14**
4. **0**
5. What get printed when the following program is compiled and run . Select the correct answer

public class Q5 {

public static void main(String args[]) {

int i, j=1;

i = (j>2)?2:3;

switch(i) {

case 0: System.out.println(0); break;

case 1: System.out.println(1); break;

case 2: System.out.println(2);

case 3: System.out.println(3); break;

case 4: System.out.println(4); break;

}

}

}

1. **3**
2. **2**
3. **1**
4. **4**
5. What all gets printed when the following program is compiled and run. Select the one correct answer.

**public class Q6 {**

**public static void main(String args[]) {**

**int i=1, j=3;**

**do {**

**i=++i;**

**j--;**

**} while(j>0);**

**System.out.println(i);**

**}**

**}**

1. **3**
2. **2**
3. **1**
4. **4**
5. What all gets printed when the following gets compiled and run. Select the two correct answers.

public class Q7 {

public static void main(String args[]) {

int i=7, j=1;

try {

i++;

j--;

if(i/j > 1)

i++;

}

catch(ArithmeticException e) {

System.out.println(0);

}

catch(ArrayIndexOutOfBoundsException e) {

System.out.println(1);

}

catch(Exception e) {

System.out.println(2);

}

finally {

System.out.println(3);

}

System.out.println(4);

}

}

A. 3

B. 2

C. 0

D. 4

1. What all gets printed when the following gets compiled and run. Select the two correct answers.

public class Q8 {

public static void main(String args[]) {

int i=1, j=1;

try {

i++;

j--;

if(i == j)

i++;

}

catch(ArithmeticException e) {

System.out.println(0);

}

catch(ArrayIndexOutOfBoundsException e) {

System.out.println(1);

}

catch(Exception e) {

System.out.println(2);

}

finally {

System.out.println(3);

}

System.out.println(4);

}

}

A. 3

B. 2

C. 1

D. 4

1. What all gets printed when the following gets compiled and run. Select the two correct answers.

public class Q9 {

public static void main(String args[]) {

String s1 = "abc";

String s2 = "abc";

if(s1 == s2)

System.out.println(1);

else

System.out.println(2);

if(s1.equals(s2))

System.out.println(3);

else

System.out.println(4);

}

}

A. 3

B. 2

C. 1

D. 4

1. What all gets printed when the following gets compiled and run. Select the two correct answers.

public class Q10 {

public static void main(String args[]) {

String s1 = new String("abc");

String s2 = new String("abc");

if(s1 == s2)

System.out.println(1);

else

System.out.println(2);

if(s1.equals(s2))

System.out.println(3);

else

System.out.println(4);

}

}

A. 1

B. 2

C. 3

D. 4

1. Which of the following are legal array declarations.
2. int i[5][];
3. int i[][];
4. int []i[];
5. int i[5][5];
6. **int[][] a;**
7. What gets printed when the following code is compiled and run . Select one correct answer

public class Q12 {

public static void main(String args[]) {

int i = 2;

do {

i--;

} while (i > 2);

System.out.println(i);

}

}

A. 1

B. 2

C. 3

D. 4

1. Which of these is a legal definition of a method named m assuming it throws IOException, and returns void. Also assume that the method takes two float arguments.

Select the one correct answer

1. void m(float a ,float b) throws IOException{}
2. void m(float a,float b) throw IOException{}
3. void m(float a,float b) throws IOException{}
4. m(float a,float b) throws IOException{}
5. void m(float a,float b) {} throws IOException
6. String s = new String("LTI");

Assuming the above declaration, which of the following statements would compile. Select the one correct answer.

1. s = 2 \* s;
2. int i = s[0];
3. s = s + s;
4. s = s >> 2;
5. None of the above.
6. If a base class has a method defined as

public void add() { }

Which of the following are legal prototypes in a derived class of this class. Select the two correct answers.

1. void method() { }
2. int method() { return 0;}
3. void method(int i) { }
4. cannot decrease the visibility of the method
5. Identify class variable from the following variables
   1. Static int a;
   2. static int b;
   3. int a;
   4. None of the above
6. What is the output of the following code?

class Target {

private int i = 6;

public int addOne() {

return ++i;

}

}

public class Q17 {

public static void main(String[] args){

System.out.println(new Target().addOne());

}

}

1. 7
2. 6
3. 5
4. None of the above
5. What is the output of the following code?

class One {

java.util.ArrayList alist;

public final void addValue(int a) {

alist.add(a);

}

public void removeValue(int a) {

alist.remove(a);

}

}

public class Q18 extends One {

public final void addValue(int a) {

System.out.println("Cannot add values");

}

public static void main(String[] args) {

One one = new Q18();

one.addValue(15);

one.removeValue(12);

}

}

1. Successfully executes the code
2. Cannot add values
3. Error while overriding the method addvalue
4. No Output
5. Which of the following statements are valid array declaration?  
   i) int number(); ii) float average[ ];  
   iii) double[]marks; iv) counter int[];

A. i and ii

**B. ii and iii**

C. iii and iv

D. All i, ii, iii and iv

1. Given:

import java.util.\*;

public class Q20 {

public static void main(String[] args) {

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

strings.add("bAaC");

strings.add("BaC");

strings.add("bAa");

strings.add("BBbb");

Collections.sort(strings);

for (String s : strings) {

System.out.print(s + " ");

}

}

**}**

**A.** **BBbb BaC bAa bAaC**

B. **bbBB bAc bAa bAaC**

C. Compilation fails

D. An exception is thrown at runtime.

1. What would happen if “String[]args” is not included as an argument in the main method.

A) No error

B) Compilation error

**C) The program won’t run**

D) Program exit

1. **What is the output of the given code:**

public class Q22 {

public static void main(String[] args) {

String str = " ";

if (str == " ") {

System.out.println("empty string");

}

else (str.length() == 0) {

System.out.println("0");

} else {

System.out.println("some value");

}

}

}

What is the result?

A. null

B. zero

C. some

D. Compilation fails.

E. An exception is thrown at runtime.

1. When a programming class implements an interface, it must provide behavior for  
   A) two methods defined in that interface  
   B) any methods in a class  
   C) only certain methods in that interface  
   **D) all methods defined in that interface**
2. What is the result of compiling and running the following code?

class Bird {

static {

System.out.print("static1 ");

}

{

System.out.print("init3 ");

}

public Bird() {

System.out.print("Bird ");

}

static {

System.out.print("static2 ");

}

}

public class Falcon extends Bird {

Falcon(){

System.out.print("Falcon ");

}

public static void main(String[] args) {

System.out.print("main ");

new Falcon();

}

}

A. main static1 static2 init3 Bird Falcon

B. main static1 static2 Falcon init3 Bird

C. main static1 static2 Falcon Bird init3

**D. static1 static2 main init3 Bird Falcon**

1. **What will be the output upon running this piece of code?**

abstract class Bike{

abstract public void speed();

}

class SportsBike extends Bike{

public static void main (String args[]) {

Bike ob1;

ob1=new SportsBike(); //1

}}

1. Compile time error at line 1
2. **forces the class SportsBike to be declared as abstract**
3. Runtime Exception
4. None of the above
5. **Given the code. What is the result?**

class Hotel {

public int bookings;

public void book() {

bookings++;

}

}

public class SuperHotel extends Hotel {

public void book() {

bookings--;

}

public void book(int size) {

book();

super.book();

bookings += size;

}

public static void main(String args[]) {

Hotel hotel = new SuperHotel();

hotel.book(2);

System.out.print(hotel.bookings);

}

}

1. **Compilation fails.**
2. An exception is thrown at runtime.
3. 0
4. 1
5. 2
6. **To resolve the compilation error(s) in the following code, what can be done independently :**

interface Movable {

public abstract void m1(); // line 1

void m2(); // line 2

public void m3(); // line 3

abstract void m4(); // line 4

}

class Chair implements Movable { // line 5

public void m1() { } // line 6

void m2() { } // line 7

}

1. mark class Chair "abstract"
2. **mark Chair "abstract" and mark m2() "public"**
3. implement m3() and m4() in Chair (with public access modifier)
4. None of the above
5. Methods can be overloaded with a difference only in the type of the return value ..  
   A) Not supported  
   **B) False**  
   C) True  
   D) None of the above
6. **Given a sample code:**

public class Test {

public static void main(String args[]) {

int i = 9;

while (i++ <= 12) {

i++;

}

System.out.print(i);

}

}

What will be the result of above code ?

1. 10
2. 14
3. 13
4. 11
5. **Given a sample code**

public class Test {

public static void main(String args[]) {

int i, j, k;

for (i = 0; i < 4; i++) {

for (j = 1; j < 3; j++) {

for (k = 2; k < 3; k++) {

if ((i == j) && (j != k))

System.out.println(i);

}}}

}}

What will be the result of above code ?

* 1. **1**
  2. 0
  3. 4
  4. The program compilation fails because of line number 2.

1. Predict the output of following Java program

interface I{

int i; // line 1

}

class C implements I{

public static void main(String a[]){

System.out.println(i);

System.out.println(i++); //line 2

}

}

1. compile time error at line 1,2
2. **compile time error at line 2**
3. Runtime exception
4. None of the above
5. Predict the output of the following program.

class Test

{

String str = "a";

void A()

{

try

{

str +="b";

B();

}

catch (Exception e)

{

str += "c";

}

}

void B() throws Exception

{

try

{

str += "d";

C();

}

catch(Exception e)

{

throw new Exception();

}

finally

{

str += "e";

}

str += "f";

}

void C() throws Exception

{

throw new Exception();

}

void display()

{

System.out.println(str);

}

public static void main(String[] args)

{

Test object = new Test();

object.A();

object.display();

}

}

A. abdef

**B. abdec**

C. abdefc

D. None of the above

1. Predict the output of following Java program?

import java.util.\*;

class C

{

final Vector v;

C()

{

v=new Vector();

}

C(int i)

{

}

public void someMethod()

{

System.out.println(v.isEmpty());

}

}

1. **compile time error**
2. runtime exception
3. the code compiles and runs fine
4. none of the above
5. Which of the following keywords are used to control access to a class member?  
   i) default ii) abstract iii) protected iv) interface v) public

A. i, ii and iii only

B. ii, iii and iv only

C. iii, iv and v only

**D. ii, iii and v only**

1. **Given a sample code:**

1 public class Test {

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

3 int i = 300;

4 switch(i)

5 {

6 default:

7 System.out.println("Default");

8 case 100:

9 System.out.println("300");

10 case 700:

11 System.out.println("700"); }

}}

**What will be result when compiled and run?**

(A) 300 700

(B) Compilation error at line no-6.

(C) Compilation error at line no-9.

(D) Compilation error at line no-11.

1. Given:

public static void main(String[] args) {

try {

args = null;

args[0] = "test";

System.out.println(args[0]);

} catch (Exception ex) {

System.out.println("Exception");

} catch (NullPointerException npe) {

System.out.println("NullPointerException");

}

}

What is the result?

A. test

B. Exception

C. Compilation fails.

D. NullPointerException

1. class Maroon {

public static void main (String[] args) {

int a = 1; // 1

short b = 1; // 2

long c = 1; // 3

a = c + a; // 4

c = b + a; // 5

}}

A compile-time error is generated at which line?

|  |  |
| --- | --- |
| a. | 1 |
| b. | 2 |
| c. | 3 |
| d. | 4 |
| e. | 5 |
| f. | None of the above |
|  |  |

1. class test {

static int x=1;

void m1(int i) {x++; i++;}

public static void main (String[] args) {

int y=3; m1(y);

System.out.println(x + "," + y);

}}

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

1. Prints: 1,3
2. Run-time error
3. Compile-time error
4. None of the above
5. class Test {

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 Test().m1();

}}

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

a. Prints: 0,0

b. Prints: 1,1

c. Prints: 1,3

d. Prints: 3,1

1. Which of the following modifiers can be applied to a constructor?

a. private

b. abstract

c. final

d. volatile

e. native

f. None of the above.

1. Which of the following modifiers can not be applied to a method?

a. abstract

b. private

c. protected

d. public

**e. volatile**

f. None of the above.

1. class Basics {

int x = 1, y = 2;

public static void main (String[] args)

{

System.out.println(x+y);

}

}

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

a. Prints: x+y

b. Prints: 12

c. Prints: 3

d. Compile-time error

1. class A {

public static void main (String[] args) {

Error error = new Error();

Exception exception = new Exception();

System.out.print((exception instanceof Throwable) + ",");

System.out.print(error instanceof Throwable);

}}

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

a. Prints: false,false

b. Prints: false,true

c. Prints: true,false

**d. Prints: true,true**

1. **class A {A() throws Exception {}} // 1**

**class B extends A {B() throws Exception {}} // 2**

**Which of the following statements are true?**

**a. class A extends Object.**

**b. Compile-time error at 1.**

**c. Compile-time error at 2.**

**d. Compile-time error at 3.**

1. **Which of the following are modifiers that can be applied to an interface that is a member of a directly enclosing interface?**

**a. abstract**

**b. implements**

**c. private**

**d. public**

1. **interface A {**

**int a = 1; // 1**

**public int b = 2; // 2**

**public static int c = 3; // 3**

**public static final int d = 4; // 4**

**}**

**Which field declaration results in a compile-time error?**

**a. 1**

**b. 2**

**c. 3**

**d. None of the above**

1. **class A {void m1(A a) {System.out.print("A");}}**

**class B extends A {void m1(B b) {System.out.print("B");}}**

**class C extends B {void m1(C c) {System.out.print("C");}}**

**class D {**

**public static void main(String[] args) {**

**A a1 = new A(); B b1 = new A(); C c1 = new A(); C c2 = new C();**

**c2.m1(a1); c2.m1(b1); c2.m1(c1);**

**}}**

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

**a. Prints: AAA**

**b. Prints: ABC**

**c. Prints: CCC**

**d. Compile-time error**

1. State whether the following statement are True or False?  
   i) The modulus operator(%) can be used only with integer operands  
   ii) Declarations can appear anywhere in the body of a java method

A. i-True, ii-False

**B. i-False, ii-True**

C. i-True, ii-True

D. i-False, ii-False

1. **. class A {**

**private static int f1 = 1;**

**private int f2 = 2;**

**void m1(int p1, final int p2) {**

**int l1 = 5;**

**final int l2 = 6;**

**Object x = new Object() {**

**int a = f1; // 1**

**int b = f2; // 2**

**int c = p1; // 3**

**int d = p2; // 4**

**int f = l2; // 5**

**};}}**

**Compile-time errors are generated at which lines?**

**a. 1**

**b. 2**

**c. 3**

**d. 5**

1. **class Test {**

**public static void main(String[] args) {**

**int[][] a1 = {{1,2},{3,4,5},{6,7,8,9},{}};**

**System.out.print(a1.length);**

**}**

**}**

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

a. Prints: 0

b. Prints: 3

c. Prints: 4

d. Prints: 9