Certification SCJP/OCJP Mock Threads

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4. Chapter: Threads

1. Threads Questions

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4.1.1. What is considered an impossible output of running the following pr...

Author: JavaChamp Team

What is considered an impossible output of running the following program?

```
public class Tester extends Thread {

 int code = 9;

 public void run() {
  this.code = 7;
 }

 public static void main(String[] args) {

  Tester thread = new Tester();
  thread.start();

  for (int i = 0; i < 5; i++) {
   System.out.print(thread.code);
  }

 }

}
```

Please choose only one answer:

- 99777
- 97777
- 77777
- 79999
- 99999

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4.1.2. What is the result of compiling and running the following program?

Author: JavaChamp Team

What is the result of compiling and running the following program?

```
public class Tester {

 public void validate() {
  int i = 0;
  while (++i < 3) {
   try {
    wait();
   } catch (InterruptedException e) {
    e.printStackTrace();
   }
   System.out.print(i);
  }
 }

 public static void main(String[] args) {
  new Tester().validate();
 }

}
```

Please choose only one answer:

- Compilation error because of calling wait() outside a synchronized block
- Compilation error because IllegalMonitorStateException is not handled
- At runtime, it throws an IllegalMonitorStateException when trying to wait
- 12

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4.1.3. What is the result of compiling and running the following code?

Author: Yasser Ibrahim

What is the result of compiling and running the following code?

```
public class Tester extends Thread {

 public void run() {
  System.out.print("run");
 }

 public static void main(String[] args) {

  Tester thread = new Tester();

  new Thread(thread).start();

  new Thread(thread).start();

 }
}
```

Please choose only one answer:

- Compilation error, can't invoke start() twice
- runrun
- IllegalThreadStateException will be thrown because of the second invoke to start()
- run

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4.1.4. What could be a part of the output of compiling and running the fol...

Author: JavaChamp Team

What could be a part of the output of compiling and running the following code?

```
public class Tester extends Thread {

 public void run() {
  System.out.println("run");
 }

 public static void main(String[] args) {
  Thread thread = new Tester();
  thread.run();
  thread.start();
  thread.start();

 }
}
```

Please choose all the answers that apply:

- Compilation error
- Prints "run" twice, not necessarily consecutively
- InterruptedException will be thrown
- IllegalThreadStateException will be thrown
- Prints "run" three times

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4.1.5. Which of the following methods defined in Thread class are static?

Author: JavaChamp Team

Which of the following methods defined in Thread class are static?

Please choose all the answers that apply:

- sleep()
- start()
- yield()
- join()
- run()

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4.1.6. Which methods are defined in calss Object?

Author: Yasser Ibrahim

Which methods are defined in calss Object?

Please choose all the answers that apply:

- wait()
- sleep()
- toString()
- finalize()
- notify()

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4.1.7. When a class implements interface Runnable, it must provide impleme...

Author: Yasser Ibrahim

When a class implements interface Runnable, it must provide implementation for method start():

Please choose only one answer:

- False
- True

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4.1.8. A thread that invokes the wait() method of an object, must owns the...

Author: JavaChamp Team

A thread that invokes the wait() method of an object, must owns the lock of the object.

Please choose only one answer:

- True
- False

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4.1.9. How can a thread own the lock of an object?

Author: Yasser Ibrahim

How can a thread own the lock of an object?

Please choose all the answers that apply:

- When the thread executes a synchronized instance method of that object
- When the thread executes a synchronized statement block in the object
- When the thread calls wait() on this object

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4.1.10. Which of the following Thread instantiations are correct?

Author: Yasser Ibrahim

Which of the following Thread instantiations are correct?

```
public static void main(String[] args) {
    new Thread(); // line 1
    new Thread("myThread"); // line 2
    new Thread(new Long(14)); // line 3
    new Thread(new Runnable(){public void run(){}}); // line 4
    Thread.getInstance(); // line 5
    }
```

Please choose all the answers that apply:

- line 1
- line 2
- line 3
- line 4
- line 5

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4.1.11. Thread objects are created by:

Author: Yasser Ibrahim

Thread objects are created by:

Please choose all the answers that apply:

- direct instantiation from java.lang.Thread class
- instantiation from a class which implements the java.lang.Thread class
- instantiation a Runnable object (from a class which implements the Runnable interface)
- instantiation a Runnable object (from a class which implements the Runnable interface) and passing this Runnable object to a Thread constructor.

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4.1.12. When creating a thread by implementing Runnable interface :

Author: JavaChamp Team

When creating a thread by implementing Runnable interface :

Please choose only one answer:

- you must implement the method run()
- you can override run(), but in case you don't you'll be restricted to the provided run() method, which contains no code and does nothing

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4.1.13. How many times the statement "we are painting" would be printed in ...

Author: Yasser Ibrahim

How many times the statement "we are painting" would be printed in this program?

```
public class Test{

 public static void main(String[] args) {

  Painter painter1 = new Painter();
  painter1.start();

  Painter painter2 = new Painter();
  painter2.start();

 }
}

class Painter implements Runnable {

 public void run() {
  System.out.println("we are painting");
 }
}
```

Please choose only one answer:

- two times
- zero times
- the program will not compile

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4.1.14. What is the possible output of compiling and running the following ...

Author: JavaChamp Team

What is the possible output of compiling and running the following code?

```
public class Test {

 public static void main(String[] args) {
  Thread request1 = new Thread(new InternetRequest (),"request#1 ");
  Thread request2 = new Thread(new InternetRequest (),"request#2 ");

  request1.start();
  request2.start();

 }

}

class InternetRequest implements Runnable {


 public void run() {
  System.out.print(Thread.currentThread().getName());

 }
}
```

Please choose all the answers that apply:

- request#2 request#1
- request#1 request#2
- an InterruptedException is thrown
- request#1 request#1

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4.1.15. What is the output of compiling and running the following code?

Author: JavaChamp Team

What is the output of compiling and running the following code?

```
class Writer extends Thread {
 public void run() {
  System.out.println("Writer run");
 }

 public static void main(String[] args) {
  Runnable c = new Writer();
  Thread t = new Thread(c);
  t.run();
 }

}
```

Please choose only one answer:

- Compilation error
- compiles fine, but no output produced
- compiles fine and prints "Writer run"
- compiles fine but throws an exception

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4.1.16. What is the output of compiling and running the following code?

Author: JavaChamp Team

What is the output of compiling and running the following code?

```
public class Test extends Thread {
 static int count = 0;

 public static void main(String argv[]) {
  Test t = new Test ();
  t.increment(count);
  t.start();
  Thread.sleep(1000);
  System.out.println(count);
 }

 public void increment(int count) {
  ++count;
 }

 public void run() {
  count = count + 5;
 }
}
```

Please choose only one answer:

- 5
- 6
- Compilation error

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4.1.17. What is the could be the output of compiling and running the follow...

Author: Yasser Ibrahim

What is the could be the output of compiling and running the following code?

```
public class Test extends Thread {
 static int count = 0;

 public static void main(String argv[]) throws InterruptedException {
  Test t = new Test ();
  t.increment(count);
  t.start();
  Thread.sleep(1000);
  System.out.println(count);
 }

 public void increment(int count) {
  ++count;
 }

 public void run() {
  count = count + 5;
 }
}
```

Please choose all the answers that apply:

- 5
- 6
- Compilation error
- An InterruptedException may be thrown

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4.1.18. What is the possible output of running this program once as it is a...

Author: Yasser Ibrahim

What is the possible output of running this program once as it is and once by marking swim() synchronized?

```
class Swimmer implements Runnable{
 String name ;
 Swimmer(String name){
  this.name = name;
 }
 public void run() {
  Test.swim(name);
 }

}

public class Test {

 public static void swim(String name) {
  System.out.print(name);
  System.out.print(name);

 }
 public static void main(String[] args) {
  new Thread(new Swimmer("Tom")).start();
  new Thread(new Swimmer("Hanks")).start();
 }
}
```

Please choose all the answers that apply:

- as it is, a possible output is TomHanksTomHanks
- as it is, a possible output is TomHanksHanksTom
- by synchronizing swim(), a possible output is TomHanksHanksTom
- by synchronizing swim(), a possible output is HanksHanksTomTom
- by synchronizing swim(), a possible output is TomHanksTomHanks

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4.1.19. What are the possible outputs of running this program once as it is...

Author: Yasser Ibrahim

What are the possible outputs of running this program once as it is, and second with marking swim() synchronized?

```
class Swimmer implements Runnable{
 String name ;
 Swimmer(String name){
  this.name = name;
 }
 public void run() {
  new  Test().swim(name);
 }

}

public class Test {

 public void swim(String name) {
  System.out.print(name);
  System.out.print(name);

 }
 public static void main(String[] args) {
  new Thread(new Swimmer("Tom")).start();
  new Thread(new Swimmer("Hanks")).start();
 }
}
```

Please choose all the answers that apply:

- as it is, the output is always consecutive two Tom then two Hanks or consecutive two Hanks then two Tom
- as it is, the output is undetermined. It is in any order of two Tom and two Hanks
- by synchronizing swim(), the output is always consecutive two Tom then two Hanks or consecutive two Hanks then two Tom
- by synchronizing swim(), the output is undetermined. It is in any order of two Tom and two Hanks

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4.1.20. What are the possible outputs of running this program once as it is...

Author: JavaChamp Team

What are the possible outputs of running this program once as it is, and second with marking swimIn() synchronized?

```
class Swimmer implements Runnable {
 String name;
 Pool pool;

 Swimmer(String name, Pool pool) {
  this.name = name;
  this.pool = pool;
 }

 public void run() {

  pool.swimIn(name);

 }

}

public class Pool {

 public void swimIn(String name) {
  System.out.print(name);
  System.out.print(name);

 }

 public static void main(String[] args) {
  Pool pool = new Pool();
  new Thread(new Swimmer("Tom", pool)).start();
  new Thread(new Swimmer("Hanks", pool)).start();
 }

}
```

Please choose all the answers that apply:

- as it is, the output is always two consecutive "Tom" followed by two consecutive "Hanks" or viceversa
- as it is, the output could be TomHanksTomHanks
- by synchronizing swimIn(), the output is always two consecutive "Tom" followed by two consecutive "Hanks" or viceversa
- by synchronizing swimIn(), the output could be TomHanksTomHanks
- by synchronizing swimIn(), the output could be TomHanksHanksTom

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4.1.21. What is the possible result of compiling and running the following ...

Author: Yasser Ibrahim

What is the possible result of compiling and running the following code?

```
class Swimmer implements Runnable {
 String name;
 Pool pool;

 Swimmer(String name, Pool pool) {
  this.name = name;
  this.pool = pool;
 }

 public void run() {

  pool.swimIn(name);

 }

}

public class Pool {

 public void swimIn(String name) {
  synchronized {
   System.out.print(name);
   System.out.print(name);
  }

 }

 public static void main(String[] args) {
  Pool pool = new Pool();
  new Thread(new Swimmer("Tom", pool)).start();
  new Thread(new Swimmer("Hanks", pool)).start();
 }

}
```

Please choose only one answer:

- TomTomHanksHanks
- HanksHanksTomTom
- HanksTomHanksTom
- undetermined order
- compilation error

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4.1.22. What is the possible result of compiling and running the following ...

Author: JavaChamp Team

What is the possible result of compiling and running the following code?

```
public class Test implements Runnable {
 Integer id;

 public static void main(String[] args) {
  new Thread(new Test()).start();
  new Thread(new Test()).start();
 }

 public void run() {
  press(id);
 }

 synchronized void press(Integer id) {
  System.out.print(id.intValue());
  System.out.print((++id).intValue());
 }
}
```

Please choose only one answer:

- 0101
- 0011
- -10-10
- -1-100
- compilation error
- an exception is thrown at run time

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4.1.23. What is the possible result of compiling and running the following ...

Author: Yasser Ibrahim

What is the possible result of compiling and running the following code?

```
public class Test implements Runnable {
 Integer id = 0;

 public static void main(String[] args) {
  new Thread(new Test()).start();
  new Thread(new Test()).start();
 }

 public void run() {
  press(id);
 }

 synchronized void press(Integer id) {
  System.out.print(id.intValue());
  System.out.print((++id).intValue());
 }
}
```

Please choose only one answer:

- 1010
- 0101
- 0123
- compilation error
- an exception is thrown at run time

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4.1.24. What is ture?

Author: JavaChamp Team

What is ture?

```
public class Test implements Runnable {

 public static void main(String[] args) throws InterruptedException {
  Test test = new Test();
  Thread t= new Thread(test);
  t.start();
  t.join();
  System.out.print("main");
 }

 public void run() {
  System.out.print("run");
 }

}
```

Please choose only one answer:

- the output could be "mainrun"
- the output could be "runmain"
- the output could be "run" then an exception is thrown at run time
- compilation error

Check the answer of this question online at QuizOver.com:
Question: thread join java

Flashcards:
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4.1.25. What is true?

Author: JavaChamp Team

What is true?

```
public class Test implements Runnable {

 public static void main(String[] args) {
  Test test = new Test();
  Thread thread = new Thread(test);
  thread.start();
  thread.join();
  System.out.print("main");
 }

 public void run() {
  System.out.print("run");
 }

}
```

Please choose only one answer:

- the program could prints runmain
- the program could prints mainrun
- the compilation fails
- an exception is thrown at run time

Check the answer of this question online at QuizOver.com:
Question: join thread in java

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4.1.26. What are the possible results of compiling and running the followin...

Author: Yasser Ibrahim

What are the possible results of compiling and running the following code?

```
public class Test implements Runnable {

 int id;

 Test(int id) {
  this.id = id;
 }

 public static void main(String[] args) throws InterruptedException {
  Thread thread1 = new Thread(new Test(1));
  Thread thread2 = new Thread(new Test(2));
  thread1.run();
  thread2.start();
  System.out.print("main");
 }

 public void run() {
  System.out.print(id);
 }

}
```

Please choose all the answers that apply:

- 12main
- 21main
- 2main1
- 1main2
- compilation error, cannot invoke run() directly on thread1
- compilation error, cannot invoke start() directly on thread2

Check the answer of this question online at QuizOver.com:
Question: run vs start in threads in java

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http://www.quizover.com/flashcards/run-vs-start-in-threads-in-java?pdf=3044

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4.1.27. What does sleep(long millis) in Thread class do?

Author: JavaChamp Team

What does sleep(long millis) in Thread class do?

Please choose only one answer:

- causes the thread, which sleep is invoked on, to sleep (temporarily cease execution) for the specified number of milliseconds
- causes the currently executing thread to sleep (temporarily cease execution) for the specified number of milliseconds
- causes the main() thread to sleep for the specified number of milliseconds
- causes the currently executing thread to wait(temporarily cease execution) for the specified number of milliseconds then brings it back to run.

Check the answer of this question online at QuizOver.com:
Question: sleep in thread in java

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4.1.28. What are the possible results of compiling and running the followin...

Author: JavaChamp Team

What are the possible results of compiling and running the following code?

```
public class Test extends Thread {
 int id;
 Test(int id) {
  this.id = id;
  start();
 }
 public static void main(String[] args)  {

  Thread t = new Thread(new Test(2));
  t.start();
  System.out.print("main");
 }
 public void run() {
  System.out.print(id);
 }
}
```

Please choose all the answers that apply:

- main22
- 0main2
- main02
- 2main2
- compilation error for calling start twice

Check the answer of this question online at QuizOver.com:
Question: thread in java

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4.1.29. What are the possible results of compiling and running the followin...

Author: JavaChamp Team

What are the possible results of compiling and running the following code?

```
public class Test {
    public static void main(String[] args) throws InterruptedException {
        Runnable t1 = new Runnable() {
            public void run() {
                try {
                    System.out.print("t1before");
                    Thread.sleep(100);
                    System.out.print("t1after");
                } catch (InterruptedException e) {
                }
            }
        };

        final Thread t2 = new Thread() {
            public void run() {
                try {
                    System.out.print("t2before");
                    wait();
                    System.out.print("t2after");
                } catch (InterruptedException e) {
                }
            }
        };
        t2.start();
        new Thread(t1).start();
    }
}
```

Please choose all the answers that apply:

- t1before may be part of th output
- t1after may be part of th output
- t2before may be part of th output
- t2after may be part of th output
- an IllegalMonitorStateException will be thrown at run time

Check the answer of this question online at QuizOver.com:
Question: using wait and sleep in threads in java

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4.1.30. What is the possible results of compiling and running the following...

Author: JavaChamp Team

What is the possible results of compiling and running the following code?

```
public class Test {

 static Runnable t1 = new Runnable() {

  public void run() {
   try {
    System.out.print("t1before");
    Thread.sleep(100);
    System.out.print("t1after");
   } catch (InterruptedException e) {
   }
  }

 };

 static Thread t2 = new Thread() {
  public void run() {
   try {
    System.out.print("t2before");
    synchronized (this) {
     wait();
    }
    System.out.print("t2after");
   } catch (InterruptedException e) {
   }
  }
 };

 public static void main(String[] args) throws InterruptedException {
  new Thread(t1).start();
  t2.start();
 }

}
```

Please choose all the answers that apply:

- t1before may be part of the output
- t1after may be part of the output
- t2before may be part of the output
- t2after may be part of the output
- compilation fails
- IllegalMonitorStateException is thrown at run time

Check the answer of this question online at QuizOver.com:
Question: using sleep and wait in thread in java

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4.1.31. The idea of this program is to allow two workers to build a wall (w...

Author: Yasser Ibrahim

The idea of this program is to allow two workers to build a wall (which consists of bricks and cement) , given the following code, what necessarily modifications are needed to build a wall by alternating between bricks and cement (brickcementbrickcement...) and to avoid as possible, one worker monopolizing the work alone ? (choose all what apply)

```
class Worker extends Thread {
 Contract contract;

 Worker(Contract contract) {
  this.contract = contract;
 }

 public void run() {
  contract.work();
 }
}

public class Contract {

 StringBuilder wall = new StringBuilder("brick");
 boolean isCementLastAdded = false;

 public void putBrick() {
  if (isCementLastAdded ;; !isWallDone()) {
   wall.append("brick");
   isCementLastAdded = false;
  }

 }

 public void putCementLayer() {
  if (!isCementLastAdded ;; !isWallDone()) {
   wall.append("cement");
   isCementLastAdded = true;

  }

 }

 public boolean isWallDone() {
  return wall.length() >= 100;
 }

 public void work() {
  while (!isWallDone()) {
   putCementLayer();
   putBrick();
  }
 }

 public static void main(String[] args) {
  Contract contract = new Contract();
  new Worker(contract).start();
  new Worker(contract).start();

 }
```

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```
}
```

Please choose all the answers that apply:

- synchronize putBrick()
- synchronize putCementLayer()
- synchronize work()
- add Thread.sleep() after putBrick() in work() method
- synchronize isWallDone()

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Question: synchronizing and mutlithreading in java

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4.1.32. What is the output of running the following program?

Author: Narendra

What is the output of running the following program?

```
class Tester extends Thread {
 int total;

 public static void main(String[] args) throws Exception {
  Tester t = new Tester();
  t.start();
  System.out.println("hi how are you:");
  synchronized (t) {
   System.out.println("waiting for t to complete");
   t.wait();
   System.out.println("total" + t.total);
  }
 }

 synchronized public void run() {
  for (int i = 0; i < 3; i++) {
   total = total + i;
  }
 }
}
```

Please choose only one answer:

- main thread will wait indefinitely.
- total 0 is part of the output.
- total 3 is part of the output .
- it depends upon which thread has got the cpu first .

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Question: java threading

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4.1.33. Synchronization issue

Author: Nikhil Kumar

Synchronization issue

```
class SyncDemo{
    public static void main(String... args){
        class A implements Runnable{
            public synchronized void run(){
               display();
            }
           synchronized void display(){
               for(int i=0;i<5;i++){
                    System.out.print("Hello");
                    try{
                       Thread.sleep(2000);
                    } catch(InterruptedException e){}
                    System.out.println(Thread.currentThread().getName());
               }
            }
        }

        A ob1=new A();
        A ob2=new A();
        Thread ob3=new Thread(ob1,"Saurabh");
        Thread ob4=new Thread(ob2,"Nikhil");
        ob3.start();
        ob4.start();
    }
}
```

Please choose only one answer:

- Compilation Fails
- Hello Saurabh Hello Nikhil ..... Printed in Synchronized way
- Output is Unpredictable .

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4.1.34. Which three will compile and run without exception ?

Author: BELHAUSS Imad

Which three will compile and run without exception ?

Please choose all the answers that apply:

- private synchronized object o;
- void go(){
  synchronized(){
  // code here
  }
- public synchronized void go(){
  //code here
  }
- private synchronized (this) void go(){
  //code here
  }
- void go(){
  synchronized(object.class){
  //code here
  }
  }
- void go(){
  synchronized (o){
  //code here
  }
  }

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Question: java synchronized this

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