Quiz 3

Questions relating to the Threading API are covered in this lesson.

Question # 1

Consider the snippet below:

```
monitor = Monitor.new
monitor.synchronize {
 monitor.synchronize {
    puts "Main thread executing"
```

What is the outcome of the above program?

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```
monitor = Monitor.new

monitor.synchronize {
   monitor.synchronize {
     puts "Main thread executing"
   }
}
```







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Question # 2

Consider the snippet below:

```
monitor = Monitor.new

Thread.new do
    monitor.enter()
    monitor.enter()
    puts "Child thread executing"
    monitor.exit()
end

# wait for child to execute
sleep(2)

monitor.enter()

puts "Main thread exiting"
```

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What will be the outcome of the above program?

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```
require 'monitor'
                                                                                         ()
monitor = Monitor.new
Thread.new do
 monitor.enter()
 monitor.enter()
 puts "Child thread executing"
 monitor.exit()
end
# wait for child to execute
sleep(2)
monitor.enter()
puts "Main thread exiting"
```



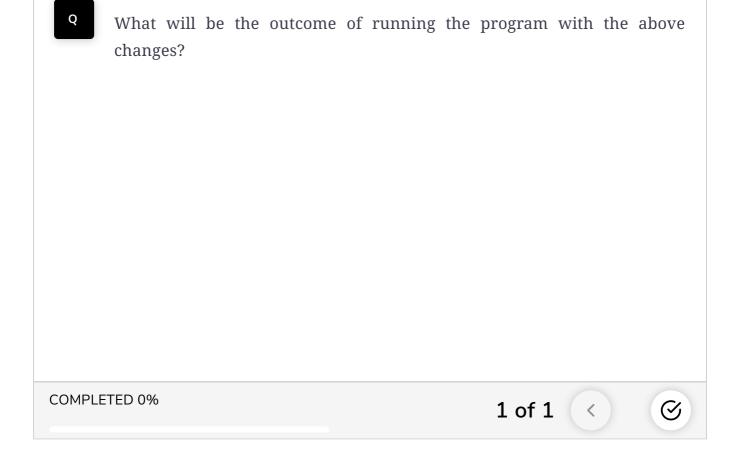


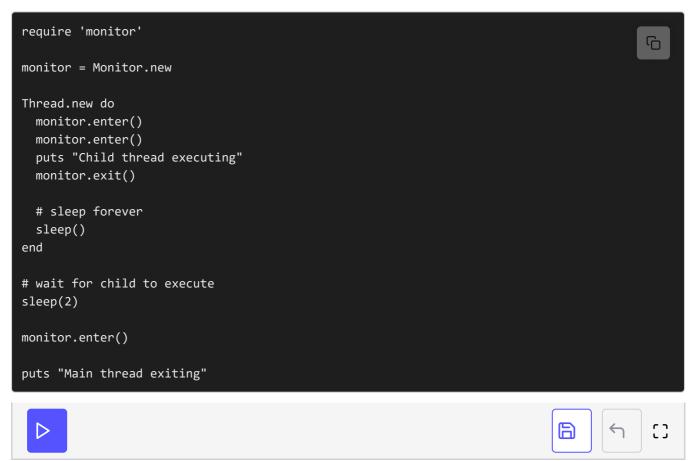


Question # 3

The child thread from the previous snippet is slightly tweaked as follows:

```
Thread.new do
 monitor.enter()
 monitor.enter()
 puts "Child thread executing"
 monitor.exit()
 sleep()
end
```





Question # 4

Consider the same program and now the child thread raises an exception as follows:

```
Thread.new do
  monitor.enter()

monitor.enter()

# raise an exception
  raise "Ka Boom"
  monitor.exit()

# sleep forever
  sleep()
end
```

What will be the outcome of the program now?

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```
require 'monitor'

monitor = Monitor.new

Thread.new do
    monitor.enter()
    monitor.enter()
    raise "Ka Boom"
    monitor.exit()

# sleep forever
    sleep()
end

# wait for child to execute
sleep(2)
```

