ESOF 422 - Homework 1

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Question 1

```
.use
model IteratorPattern
class Iterator
attributes
operations
next()
begin
end
hasNext(): Boolean
begin
end
end
class Container < Iterator</pre>
attributes
operations
set()
begin
end
get()
createIterator(): Iterator
begin
declare c:Container;
result := c
end
next()
hasNext(): Boolean
end
class Client
attributes
operations
populateContainer()
begin
declare c:Container;
c.set()
end
traverse()
begin
declare trav:Iterator;
trav.next()
end
end
```

association client_container between
Client[0] role client2
Container[0..*] role container
end
association client_iterator between
Client[0] role client1
Iterator[0..*] role iter

Question 2

.x

-- This file creates 1 client, 1 container, and 2 iterators. We first
-- assume that the Contianer has information we would like to iterate over.
-- We then call the necessary methods and iterate over the contents.

!create client:Client
!create container:Container
!insert (client,container) into client_container
!client.populateContainer()

!container.createIterator()
!create iter:Iterator
!insert (client,iter) into client_iterator

!client.traverse()





