"Design Patterns as Higher-Order Datatype-Generic Programs"

Pop Quiz

Terminology

Define the following terms:

Design pattern Higher-order ?

Datatype-generic ?

Iterators

}

```
Given the following
```

default void iterate(java.util.function.Consumer consumer)
{

```
Given
public class Either<A,B>
    private A left;
    private B right;
    private static enum Location {LEFT, RIGHT};
    private Location tag;
    public<R> R Match(Function<A,R> f, Function<B,R> g)
        if (this.tag == Location.LEFT)
            return f.apply(left);
            return g.apply(right);
    }
}
Implement an iterator,
class EitherIterator implements Iterator{
    public boolean hasNext(){
    }
    public Object next(){
```

Hint the latter two can be defined as one-liners ;-)

}