```
Terminology
```

```
Define the following terms:
Design pattern?
```

Higher-order ?

Datatype-generic?

Iterators

}

```
Given the following
```

```
interface Iterator<T> {
    boolean hasNext();
                          // Are there more elements to iterate over?
            next();
                          // Actually obtain the next element of type T.
Implement a method to process elements,
```

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 two-liners ;-)