Iterable.java (folder: java.base/java/lang)

```
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package java.lang;
import java.util.Iterator;
import java.util.Objects;
import java.util.Spliterator;
import java.util.Spliterators;
import java.util.function.Consumer;
/*Implementing this interface allows an object to be the target of the enhanced
* {@code for} statement (sometimes called the "for-each loop" statement).
* @param <T> the type of elements returned by the iterator
* @since 1.5
* @jls 14.14.2 The enhanced {@code for} statement
public interface Iterable<T> {
   * Returns an iterator over elements of type {@code T}.
   * @return an Iterator.
  Iterator<T> iterator();
  /* Performs the given action for each element of the {@code Iterable}
   * until all elements have been processed or the action throws an
   * exception. Actions are performed in the order of iteration, if that
   * order is specified. Exceptions thrown by the action are relayed to the
   * caller.
   * 
   * The behavior of this method is unspecified if the action performs
   * side-effects that modify the underlying source of elements, unless an
   * overriding class has specified a concurrent modification policy.
   * @implSpec
   * The default implementation behaves as if:
```

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```
* {@code
    for (T t : this)
       action.accept(t);
* }
* @param action The action to be performed for each element
* @throws NullPointerException if the specified action is null
* @since 1.8
*/
default void forEach(Consumer<? super T> action) {
  Objects.requireNonNull(action);
  for (T t : this) {
     action.accept(t);
  }
}
/* Creates a {@link Spliterator} over the elements described by this
* {@code Iterable}.
* @implSpec
* The default implementation creates an
* <em><a href="../util/Spliterator.html#binding">early-binding</a></em>
* spliterator from the iterable's {@code Iterator}. The spliterator
* inherits the <em>fail-fast</em> properties of the iterable's iterator.
* @implNote
* The default implementation should usually be overridden. The
* spliterator returned by the default implementation has poor splitting
* capabilities, is unsized, and does not report any spliterator
* characteristics. Implementing classes can nearly always provide a
* better implementation.
* @return a {@code Spliterator} over the elements described by this
* {@code Iterable}.
* @since 1.8
default Spliterator<T> spliterator() {
  return Spliterators.spliteratorUnknownSize(iterator(), 0);
}
```

}