```
// Goal:
int sum = 0;
for(Integer i: new Range(0, 100)) {
    sum += i;
}
```

```
// Idea:
Integer sum(Iterable<Integer> iterable) {
  int sum = 0;
  for(Integer i : iterable) {
     sum += i;
  }
  return sum;
}
```

```
interface Function<
                           T,R>
Type Parameters:
T - the type of the input to the functionR - the type of the result of the function
Represents a function that accepts one argument and produces a result.
This is a functional interface whose functional method is
apply(Object).
R apply(T t)
Applies this function to the given argument.
class AddThree implements Function<Integer, Integer> {
   public Integer apply(Integer value) {
      return value + 3;
}
Function< Integer, Integer > adder = new
                                                           AddThree ();
Integer result =
                        adder.apply ((Integer) 4);
```

```
class Range implements Iterable<Integer> {
  int currentIndex, low, high;
  /* ... */
}
```

```
class Range implements Iterator < Integer > {
  int currentIndex, low, high;
  /* ... */
}
```

```
class Range implements Iterable<Integer> {
   i nt low, high;
   /* ... */
}
```

```
class Range implements Iterator < Integer > {
  int low, high;
  /* ... */
}
```