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Questions

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operations

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Each of the methods below is an operation on an abstract data type from the Java library. Click on the link to look at its documentation, then classify the operation.

[Integer.valueOf\(\)](#)

creator



✓ Answer: creator

Explanation

`Integer.valueOf()` is a creator for `Integer`, taking a different type (`String`) and making an `Integer`. It's an example of a factory method.

[BigInteger.mod\(\)](#)

producer



✓ Answer: producer

Explanation

`BigInteger.mod()` is a producer for `BigInteger`, taking two `BigInteger` values and producing another `BigInteger` value.

[List.addAll\(\)](#)

mutator



✓ Answer: mutator

Explanation

`List.addAll()` is a mutator for `List`. It changes the contents of the list.

[Collections.unmodifiableList\(\)](#)

producer



✓ Answer: producer

Explanation

`Collections.unmodifiableList()` is a producer for `List`, taking one `List` value and making another `List` value with different behavior.

`String.toUpperCase()`

✓ Answer: producer

Explanation

`String.toUpperCase()` is a producer for `String`, taking one `String` and producing another `String`.

`Set.contains()`

✓ Answer: observer

Explanation

`Set.contains()` is an observer for `Set`, taking a `Set` and returning information about it expressed in a different type (boolean).

`BufferedReader.readLine()`

✓ Answer: mutator

Explanation

`BufferedReader.readLine()` is a mutator for `BufferedReader`. It changes the state of the `BufferedReader` object by advancing it by one line through the stream.

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