Transcriptz



Specifications: Numerics

The Numerics class is a utility class for working with Number objects (and their specializations) and numeric values. In addition to the obvious specifications illustrated in the UML class diagram, the Numerics class must satisfy the following specifications.

- 1. The default double value of a missing value must be 0.0.
- 2. The doubleValue(Double number) method must return the double value of the Double parameter unless it is null, in which case it must return the default double value of a missing value.
- 3. The doubleValue(Double number, double missingValue) method must return the double value of the Double parameter unless it is null, in which case it must return missingValue.
- 4. The doubleValue(Double number, double missingValue, double lowerBound) method must return the double value of the Double parameter unless it is null or it is less than lowerBound, in which case it must return missingValue.
- 5. The signum(int n) method must return -1 if n is less than 0, 0 if n equals 0, and 1 if n is greater than 0.