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jminusminus

Class NRange

- java.lang.Object
  - jminusminus.NRange

- All Implemented Interfaces:
  Comparable<NRange>

```
class NRange
extends Object
implements Comparable<NRange>
```

A liveness range (for an interval).

- ### Field Summary

<table>
<tr><td colspan="2" align="center">Fields</td></tr>
<tr><th>Modifier and Type</th><th>Field and Description</th></tr>
<tr><td>int</td><td>start
The range's start position.</td></tr>
<tr><td>int</td><td>stop
The range's stop position.</td></tr>
</table>

- ### Constructor Summary

<table>
<tr><td colspan="2" align="center">Constructors</td></tr>
<tr><th colspan="2">Constructor and Description</th></tr>
<tr><td colspan="2">NRange(int start, int stop)</td></tr>
</table>

Construct a liveness range extending from start to stop (positions in the code).

- **Method Summary**

Methods

Modifier and Type	Method and Description
int	**compareTo**(NRange other) One liveness range comes before another if its start position comes before the other's start position.
boolean	**rangeOverlaps**(NRange a) Does this liveness range overlap with another?
NRange	**splitRange**(int newStart, int oldStop) Mutates current range to be only as long as the split point and returns the remainder as a new range.
String	**toString**() The string representation of the range.

- **Methods inherited from class java.lang.Object**

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

- **Field Detail**

  - **start**

  public int start

  The range's start position.

  - **stop**

  public int stop

  The range's stop position.

- **Constructor Detail**

  - **NRange**

  public NRange(int start,
        int stop)

  Construct a liveness range extending from start to stop (positions in the code).

  Parameters:
      start - start position.
      stop - stop position.

- **Method Detail**

  - **splitRange**

  public NRange splitRange(int newStart,
            int oldStop)

Mutates current range to be only as long as the split point and returns the remainder as a new range.

Parameters:
    `newStart` - the split location
    `oldStop` - the split location
Returns:
    the new NRange which begins at the split position and runs to the end of this previously whole range.

- **rangeOverlaps**

`publicbooleanrangeOverlaps(`NRange`a)`

Does this liveness range overlap with another?
Parameters:
    a - The other range.
Returns:
    true or false.

- **compareTo**

`publicintcompareTo(`NRange`other)`

One liveness range comes before another if its start position comes before the other's start position.
Specified by:
    `compareTo` in interface `Comparable<NRange>`
Parameters:
    other - the other range.
Returns:
    comparison.

- **toString**

`publicStringtoString()`

The string representation of the range.
Overrides:
    `toString` in class `Object`
Returns:
    "[start,stop]"

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