Recipe 0.3. Making integer sequences with gap(s)

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1. Problem

You want to create a sequence of integers with gap(s).

2. Solution

Here is a code that build a gapped sequence of integers:

```
// [0, 10[
IntegerSequence seq1 =
        new IntegerSequence.Builder(0, 10).build();

// [11, 20[
IntegerSequence seq2 =
        new IntegerSequence.Builder(11, 20).build();

// new instance
IntegerSequenceWithGap.newInstance seq =
        IntegerSequenceWithGap.newInstance();

// add sequences
seq.add(seq1);
seq.add(seq2);

// the sequence of integers can be extracted
int[] ints = seq.toInts();

// seq: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19
Assert.assertEquals(18, seq.size());
```

you can also build it from integers:

```
// the gapped sequence of integers
int[] ints = new int[] {1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14,
 15, 16, 17, 18, 19};

// the sequence with gap
IntegerSequenceWithGap seq =
        IntegerSequenceWithGap.fromIntegers(ints, 1);
```

3. Discussion

4. See Also

See also the [sequence of integer](#) cookbook.