Input	Expected Result	Rationale
1	"1"	Close-to-boundary
0	"0"	Boundary case
1234567	"1,234,567"	Routine case
8000000024	"80,000,000,024"	Routine case, many zeroes
9182839482103823091830	"9,182,839,482,103,823,091, 830"	Large case
999	"999"	Largest case without a comma
1000	"1,000"	Smallest case with a comma

```
import static org.junit.Assert.*;
import org.junit.Test;
public class toStringWithCommasTest {
       @Test
       public void test1() {
              NaturalNumber n = new NaturalNumber2("1");
              NaturalNumber nExpected = new NaturalNumber2(n);
              String case = toStringWithCommas(n);
              String caseExpected = "1";
              assertEquals(nExpected, n);
              assertEquals(caseExpected, case);
      }
       @Test
       public void test0() {
              NaturalNumber n = new NaturalNumber2("0");
              NaturalNumber nExpected = new NaturalNumber2(n);
              String case = toStringWithCommas(n);
              String caseExpected = "0";
              assertEquals(nExpected, n);
              assertEquals(caseExpected, case);
      }
```

```
@Test
public void test1234567() {
       NaturalNumber n = new NaturalNumber2("1234567");
       NaturalNumber nExpected = new NaturalNumber2(n);
       String case = toStringWithCommas(n);
       String caseExpected = "1,234,567";
       assertEquals(nExpected, n);
       assertEquals(caseExpected, case);
}
@Test
public void test80000000024() {
       NaturalNumber n = new NaturalNumber2("8000000024");
       NaturalNumber nExpected = new NaturalNumber2(n);
       String case = toStringWithCommas(n);
       String caseExpected = "80,000,000,024";
       assertEquals(nExpected, n);
       assertEquals(caseExpected, case);
}
@Test
public void test9182839482103823091830() {
       NaturalNumber n = new NaturalNumber2("9182839482103823091830");
       NaturalNumber nExpected = new NaturalNumber2(n);
       String case = toStringWithCommas(n);
       String caseExpected = "9,182,839,482,103,823,091,830";
       assertEquals(nExpected, n);
       assertEquals(caseExpected, case);
}
@Test
public void test999{
       NaturalNumber n = new NaturalNumber2("999");
       NaturalNumber nExpected = new NaturalNumber2(n);
       String case = toStringWithCommas(n);
       String caseExpected = "999";
       assertEquals(nExpected, n);
       assertEquals(caseExpected, case);
```

```
@Test
public void test1000{
    NaturalNumber n = new NaturalNumber2("1000");
    NaturalNumber nExpected = new NaturalNumber2(n);
    String case = toStringWithCommas(n);
    String caseExpected = "1,000";

    assertEquals(nExpected, n);
    assertEquals(caseExpected, case);
}
```