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import static org.junit.Assert.assertEquals;

import org.junit.Before;
import org.junit.Test;

public class AlternatingCoinTest extends RandomWithParityTest {

    @Override
    @Before
    public void setUp() {
        p = new AlternatingCoin();
    }

    @Test
    public void alternatingOutcomeBase() {
        int actual;
        for (int i = 0; i < 30; i++) {
            actual = p.generateNumber(1);
            assertEquals("Random number is 0", Integer.valueOf(0), Integer
                .valueOf(actual));
            actual = p.generateNumber(1);
            assertEquals("Random number is 1", Integer.valueOf(1), Integer
                .valueOf(actual));
        }
    }

    @Test
    public void alternatingOutcomeRealRange() {
        int actual;
        for (int i = 0; i < 30; i++) {
            actual = p.generateNumber(56);
            assertEquals("Random number is 0", Integer.valueOf(0), Integer
                .valueOf(actual));
            actual = p.generateNumber(56);
            assertEquals("Random number is 1", Integer.valueOf(1), Integer
                .valueOf(actual));
        }
    }
}
```