

```
/**
 * Computes the remainder of the
 * Euclidean division of a by b. In
 * contrast to the Java version a % b,
 * the output will always be positive.
 * Throws ArithmeticException when b is
 * equal to 0.
 *
 * @param a dividend
 * @param b divisor != 0
 * @return remainder r with  $0 \leq r < b$ 
 */
public static int modulo(int a, int b) {
    int m = a % b;
    return m < 0 ? m + b : m;
}
```