```
* Computes the remainder of the
 * Euclidean devision 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 <= r < b
public static int modulo(int a, int b) {
    if (b < 0) {
                              // 1
                               // 2
       b *= -1:
    int m = a;
   while (m < 0 | | m > b) \{ // 4 \}
        m += m < 0 ? b : -b; // 5
    }
    return m;
```