

**STEP****EXAMPLE**

1. Thread A reads the value in  $x$ .

A reads 7 from  $x$ .

2. Thread A adds 1 to the value it read.

A computes 8.

3. Thread A writes the result back to  $x$ .

$x \leftarrow 8$ .

4. Thread B reads the value in  $x$ .

B reads 8 from  $x$ .

5. Thread B adds 1 to the value it read.

B computes 9.

6. Thread B writes the result back to  $x$ .

$x \leftarrow 9$ .