

34. Yes,  $x=8$  can be achieved by 5 of these threads. This can occur if one thread eats another thread  $\frac{1}{3}$  the other 3 threads run sequentially.

```
load r1, x
load r2, x
add r2, r2, 2
store r2, x
add r1, r1, 2
store x, r1
```

2 threads run but only incremented once since  $r1$  overwrites  $r2$   
( $x=2$ )

```
load r3, x
add r3, r3, 2
store x, r3
load r4, x
add r4, r4, 2
store x, r4
load r5, x
add r5, r5, 2
store x, r5
```

These threads run sequentially  
( $x = 2 + 2(3) = 8$ )