(In this example buf has size 24.)
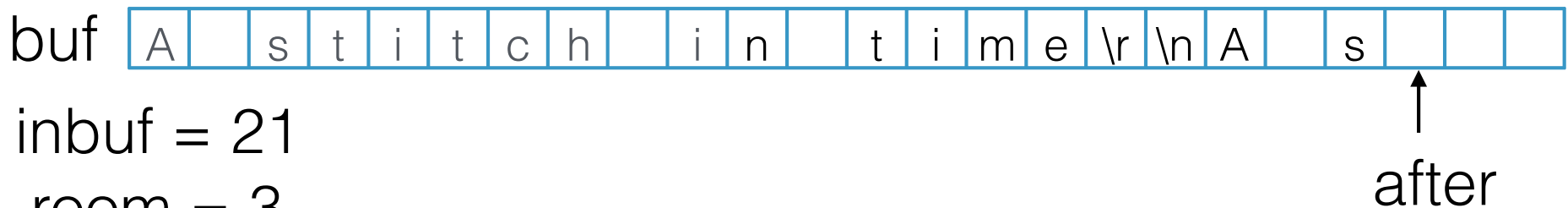
after

Initial state

buf

inbuf = 0
room = 24

First read returns 10

buf | A | | s | t | i | t | c | h | | i |
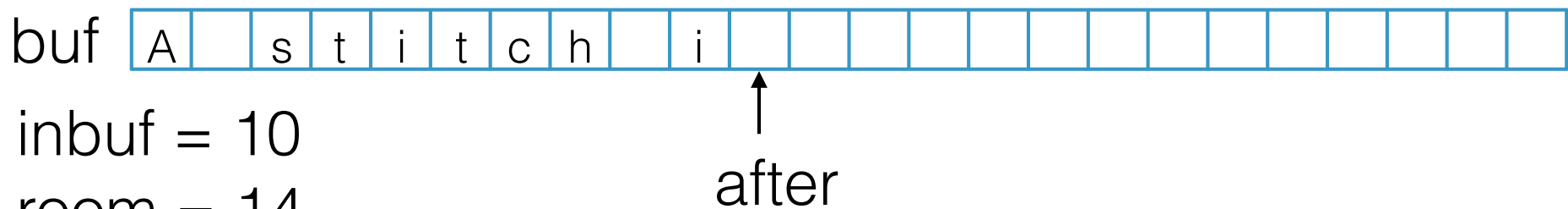
after

inbuf = 10
room = 14

Second read returns 11

buf | A | | s | t | i | t | c | h | | i | n | | t | i | m | e | \r | \n | A | | s |

inbuf = 21
room = 3

after

Now we have a full line to print so we want
to remove it from the buffer and shift over
everything after the new line

buf

A | | s | | | | | | | | | | | | | | | | | | | | | |

inbuf = 3

after

room = 21