

Практика 27.04. Разбор ДЗ

SP.direction(i) {

(1) LAST := i

(2) if (DOOR = closed) {

(3) return (right)

 }

 else {

(4) DOOR := closed

(5) if (LAST = i) {

(6) return (stop)

 }

 else {

(7) return (left)

(8) }

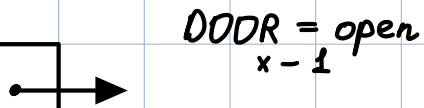
(9) } ← без return

validity (допустимость значений)

left, right, stop

Отсутствие циклов — необходимое,

но недостаточное условие

x		
$\leq x - 1$	right	
$\leq x - 1$	left	
≤ 1	stop	

Правильная реализация

```

gt(i) {
    1) FAA      NEXT := 0
    k := NEXT.FAA  2) LOCK
    return(k)
}

```

С помощью замка

```

gt(i) {
    LOCK.acquire()
    k := NEXT
    NEXT := NEXT + 1
    LOCK.release()
    return k
}

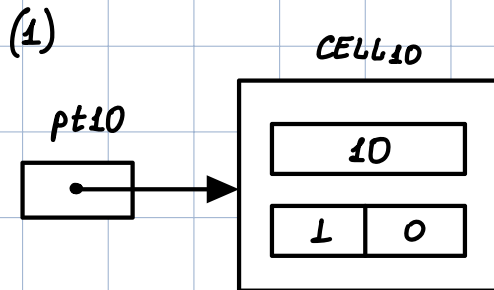
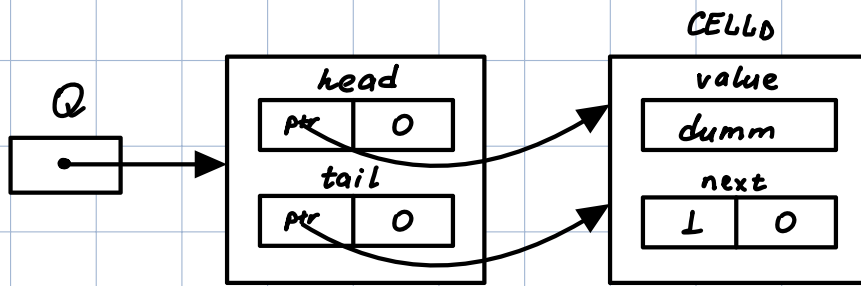
```

Очередь M&S

```

enq(10)

```



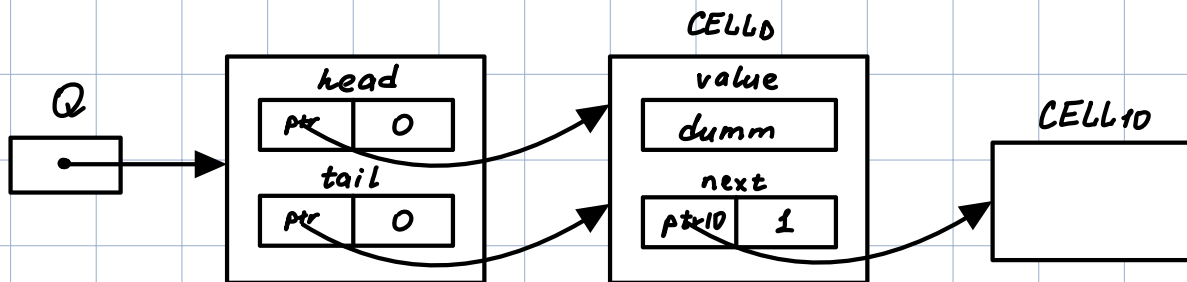
(3) $ltail = \langle ptr, 0 \rangle$

(4) $lnext = \langle 1, 0 \rangle$

(5) $ltail = tail?$

(6) $lnext.ptr = 1?$

(7) $ltail.next := \overset{CAS}{\langle ptr10, 1 \rangle}$



(8) $tail := \overset{CAS}{\langle ptr10, 1 \rangle}$

