$$a \to b \to b \to b$$
$$a \to a \to a \to b$$
$$0 \quad 1 \quad 1 \quad 2 \quad 3$$
$$+ \quad + \quad +$$

$$[\ ] \to [0] \to [0,1] \to [0,1,1] \to [0,1,1,2] \to \ldots \qquad [0,1,1,2,\ldots]$$
$$i: 0 \qquad 1 \qquad\qquad 2 \qquad\qquad 3 \qquad\qquad\qquad\qquad i-1$$

THE ACTUAL LIST IMPLEMENTATION

0   1   2   3   ...   n   ... $+\infty$

FIRST | REST
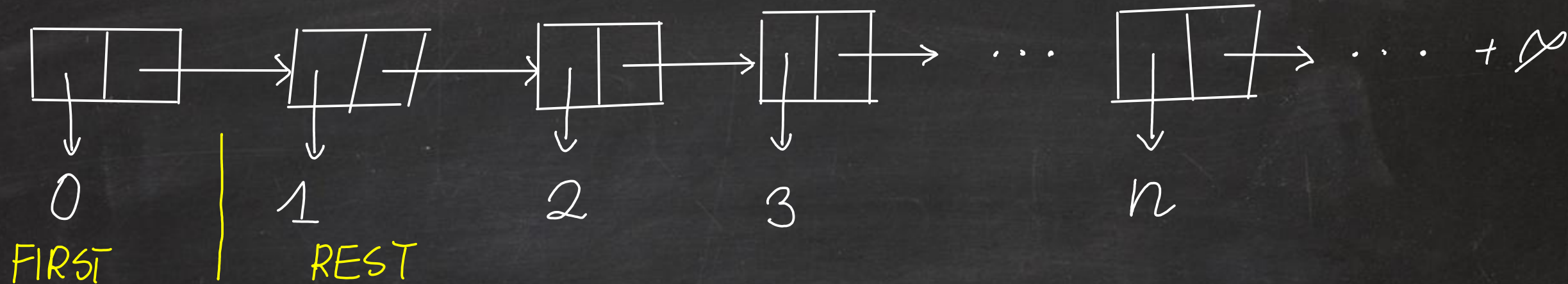
THE LAZY LIST IMPLEMENTATION

THE PROMISE OF COMPUTING

THE PROMISE OF COMPUTING

...

0   1   2

FIRST | REST