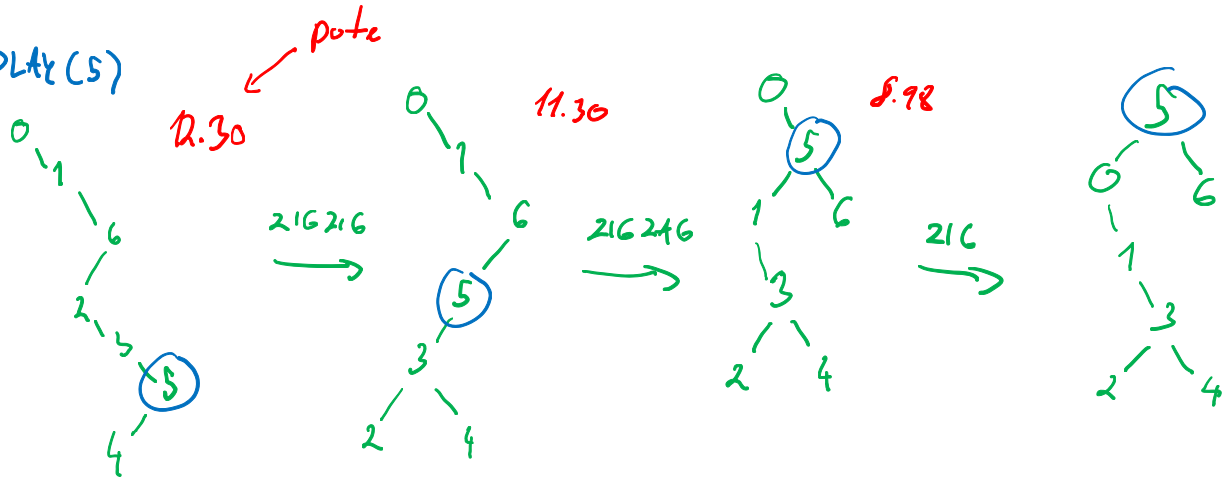


Splay trees

(cont.)

Ex: SPLAY(5)



Notation:

$v \dots$ node, $n \dots$ # nodes

$T(v) \dots$ subtree rooted at v

$s(v) \dots$ # nodes in $T(v)$ size

$r(v) := \log_2 s(v)$ rank

$\Phi := \sum_v r(v)$ potential

$$1 \leq s(v) \leq n$$

$$0 \leq r(v) \leq \log_2 n$$

$$0 \leq \Phi \leq n \log_2 n$$

