

## expectation<sup>11,40</sup>

$E(n;F) \equiv_{\text{def}} \text{if } (n =_0 0) \text{ then } F(\text{null}) \text{ else weighted-sum}(p;\lambda x.E(n - 1;\text{rv-shift}(x;F))) \text{ fi}$

*clarification:*

$\text{expectation}(p;n;F)$   
 $\equiv_{\text{def}} \text{if } (n =_0 0)$   
     $\text{then } F(\text{null})$   
     $\text{else weighted-sum}(p;\lambda x.\text{expectation}(p;n - 1;\text{rv-shift}(x;F)))$   
     $\text{fi}$   
*(recursive)*