c(left) = capacity of the node's left child c(right) = capacity of the node's right child

split coordinate := avatar[i].getX() (or getY), where i is such that:

load(aj)

$$\frac{\sum_{j=0}^{|c|} |c|}{|c|} \approx \frac{c(left)}{c(left) + c(right)}$$