









Randomized Contar set. with prob. 13, replace each interal by 2 interals scaled by 1/2 with pob 2/3, replace each interval by 2 intervals scaled by 4 1 = E(rid + rad) = "experted value" "average" == ((() + = () + = () () () () () 1== (=) + 4 - (=) d x=(2/d, 50 (4/d= x2 $1 = \frac{2}{3}X + \frac{4}{3}X^2$ $3 = 2x + 4x^2 - - - x = -\frac{1 + \sqrt{13}}{4}$ $d = \frac{\log(-1 + \sqrt{13}^7)}{1 \cdot 9(1/2)}$