3agara 2.4

Dokaseume no ungykyna, emo echu T(n) = 2T(n/2) + n, mo T(n) = SL(nlogn) $T(n) \geq c \cdot n \cdot logn$ $T(n) = 2T(\frac{n}{2}) + n \geq 2c \frac{n}{2} log \frac{n}{2} + n =$ = cn(log n - 1) + n = cnlog n - cn + n = $= cn(log n + n(1 - c) \geq cn(log n), npa c = 1$ $nlog n \geq nlog n$