Komeremo comerague bacunes gumes

• Outer bygen nymmum znamus: $1, 2, 4, 8, ..., 2^{K}$, 2ge K-reame.

Znamue, nym Komopen $2^{K} \le N \longrightarrow K = \lfloor \log_{2} n \rfloor + 1 = >$ $=> Kommum to Umenayuu = O(\log_{2} n)$

Kauremes amenagui brympernero yurus

- · inner bygen nommuname zonnemus: 2,3,..., n-1 => => kommente cemenagui yuma = (n-2)
- · Eggen inpansemon 1 onepagner na constitue 4 1 onepagner va apugo geventue (x>y/innev)
- · Eun guotre remumo mo ? onengus re opus genemente U 1 rea repurbarence (y=y+outer/inner) · Eun genobre reonogres onenegus
- na guxpunerum
- · Morga pyrnyuso kremennoù cuorusoennu uoruso upegemeebuurs cuezysovyur objerzon: $T(n) = (\log_2 n \cdot (n-1) \cdot 5) + (\log_2 n \cdot (n-1) \cdot 3) = 8(n-1) \cdot \log_2 n$

Tyman 2

 $f(n) = \Theta(g(n))$ moran a montho moran, usign $\exists c_1, c_2, n_0 > 0 \ \forall n \geq n_0 : 0 \leq c_1, g(n) \leq f(n) \leq c_2, g(n)$ Bramen engrae $g(n) = \log_2 n \cdot n$ $T.K. T(n) \approx 8 \cdot n \cdot \log_2 n$ grus Santuux n, $n \cdot n \cdot n$ un somen busyame $c_1 = 1$, $c_2 = 10$, $n_0 = 1$ $= T_n = \Theta(\log_2 n \cdot n) = T_n = T_n = T_n \cdot n$