Josephus Problem! 1823 - Leetcode Winner of the Circular Game ¥ = 2 Solve (n, K) -> Solve (n-1, K) Solve(2, K) -> Solve (1, K) Solve (3, K) \rightarrow Solve <math>(2, K) \rightarrow 1+2=(3)S&re (4,6) -> S&re(3,2) 3+k=3+2=5 $Sdve(S, k) \rightarrow S(u, k) = S.1.4 = 1$ -) 1+ k = 1+2 = 3 Solve (n/k) = | solve (n-1, k) + K]% n × Why add k K count k=1,2 and 50 2 2 = 2 k count increases with the person Count, so we add k. n=1, k can't be counted n=2, le can be confid nece be conta trice 27.5 = 2Normalization * Hamming 2) eight count = 0, 1, 2, 3 Threger $\rightarrow 11 \rightarrow$ While (n > 0) 2 1 0 1 \times While $(n \mid = 0)$ 0 0 0 1 $\gamma = \gamma > 1$ Chocolate Distribution Presen 3 7,3,2,4,9,12,56 4 - 2 = 2 7 - 3 = 4* Winimum O(1) P = 0 = 1 + 1 - 9 = 0 $\int 4, 3, 2, 6$ Sout -2,3,4,6 1) n Logn $2+3=5 \rightarrow 5,4,6$ 4,5,6 (a) Sout -4+5=9nlogn (m) Sout -) n logn 4,3,2,6 Min-heat Soot (nlogn) Memorp