No of leaf nodes = $\frac{n}{2} + 1$ (45)3 No g non-leaf nodes = n-leaf nodes o When we convert an array into a heap, we just need to heapify the non-leaf nodes ($i = \frac{n}{2}$ to i = 1); because, the rest of the leaf nodes will automatically be converted to a min or max heep. (Important Note) ****** i= @ largest = i Max Heap lagest / all[] largest - life heapily (arr, n) su, s3, ss, s2, s0 Heat Sod: > mlogn 55 | 53 | 54 | 52 | 50 1 2 3 4 5 n-) elemente? int size = n; while (size >1) { swap (aur [1], aur [aize]); Size --; heapify (au, n, 1); 52 [53] 54] Concept X Padding & Greedy Alignment

* Minimum No of Coins -> GEG

* Activity Selection Problem

* Job Seguencing | Scheduling Problem

* Minimum Coat of Rober -> GEG

* Chocolate Distribution Problem Assolute

* Policemen Catching Thieves Difference

* Huffman Encoling -> GEG

* Fractional Knapsnek | 0,1 Knapsnek

* Nikumi & Donuts

* * Yreedy Algorithms: > 1 2 3 14 padding for balancing)
(load balancing) When the compiler obsserves that there's imbalance 8) the size of the data types, it adds extra bytes as "padding" to balance the load. 10 save memory, we as users implement descending order of data types to decrease the padding and make the code more efficients this is alled I Greedy Alignment" * Minimum number of coins to get a backicular Feedback: -> 12156