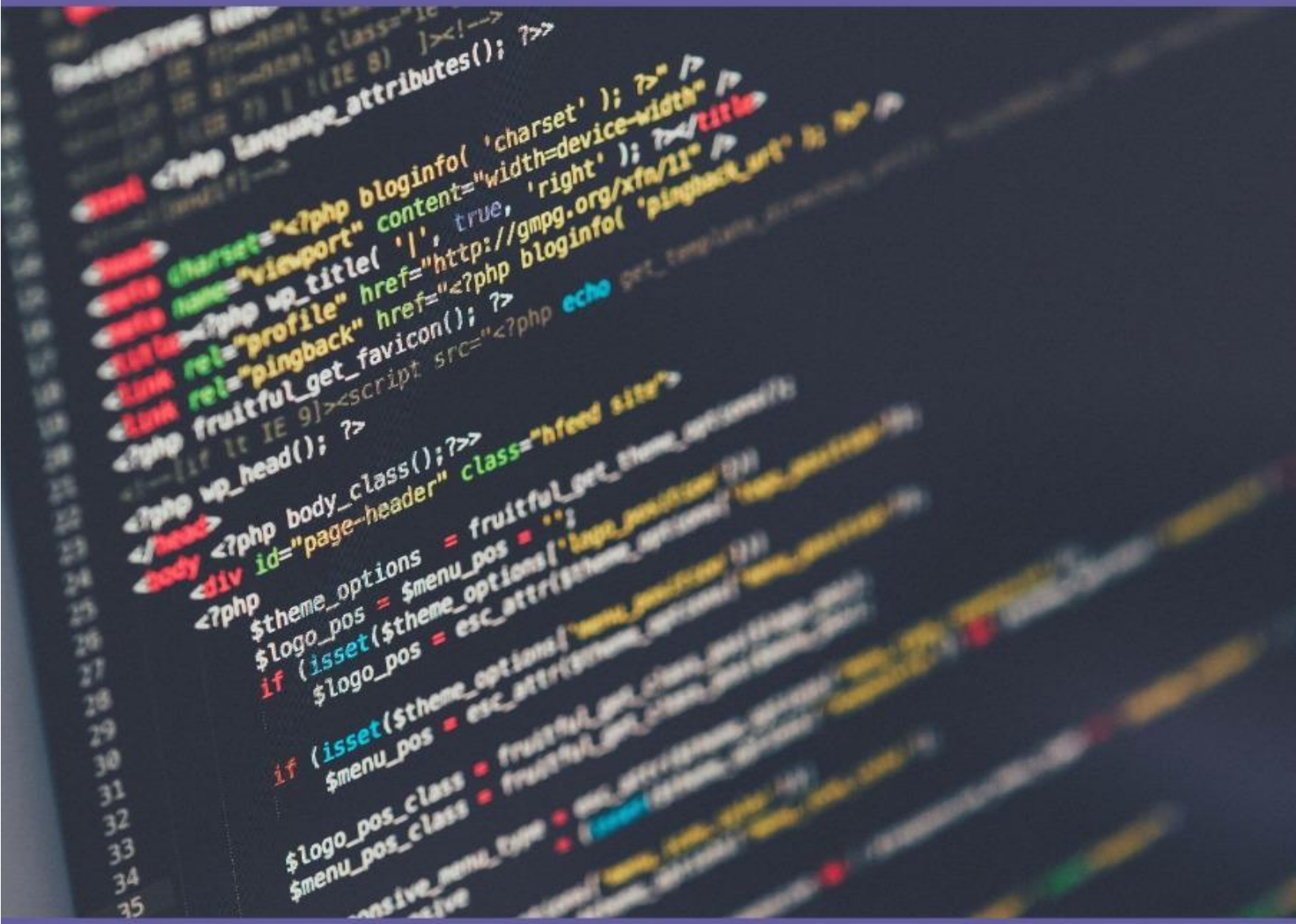
acm - CEG

Student Chapter

C.O.D.E



INTERNSHIP AND PLACEMENT PREPARATION MATERIAL

Heap

A Heap is a special Tree-based data structure in which the tree is a complete binary tree. Generally, Heaps can be of two types,

i)Minheap
ii)Maxheap

Resources:
https://www.youtube.com/watch?v=g9YK6sftDi0&ab_channel=BackToBackSWE
https://www.youtube.com/watch?v=wptevk0bshY&ab_channel=WilliamFiset

https://www.geeksforgeeks.org/binary-heap/
https://www.geeksforgeeks.org/time-complexity-of-building-a-heap/
https://www.geeksforgeeks.org/heap-sort/

Practice:
https://practice.geeksforgeeks.org/problems/operations-on-binary-min-heap/1
https://leetcode.com/problems/kth-largest-element-in-an-array/

Medium:
https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes/0
https://www.geeksforgeeks.org/nearly-sorted-algorithm/

Hard:
https://practice.geeksforgeeks.org/problems/find-median-in-a-stream/0

Other useful resources:
https://www.geeksforgeeks.org/check-if-a-given-binary-tree-is-heap/
https://www.geeksforgeeks.org/height-complete-binary-tree-heap-n-nodes/
https://www.geeksforgeeks.org/convert-bst-min-heap/
https://www.geeksforgeeks.org/heap-using-stl-c/
https://www.geeksforgeeks.org/where-is-heap-sort-used-practically/