**Optional Project6:**

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HeapMedian1.java is used to solve the median problem , where i used two heaps min heap and max heap to keep track of all elements greater than medain and less than median repectively.

HuffManCoding.java contains code to solve the Huffman coding problem where Cormen's book pseudocode is used to construct the tree and preorder traversal of it gives all the associative codes of its nodes.

KsmallestBinaryHeap.java is used to code the kth smalles element where another heap of size k is used to retrieve the kth smallest element.

KwaySorti.java is used to solve the K way sorting , I couldn't solve the Divide and conquer step properly something is wrong with my conquer stage in this code.

Power2.java is used t print all the power's from 2 to n in increasing order . We very much blindly implemented the procedure Professor taught in the class.