Dejustra's Algorithm - running time analysis. kreap: Wganstimuse time for finding / pushing a node. log(n) store vertieu on heap. heap holds all vertices such that tout is in X and head in (V-Y). heap has every Verlan with value: & for every node that was added to x, find its tail & update the key for that tail nodes in heap. heap mill be built once units all kys = 00 = constant time. for every edge we need to up of ale the heap heys are vertices = m logn. hey . repr = ((5, v) + ((v, w). for every node we need to ge function to be find our in heap modified = n logn ... mlogn+ nlogn.