Bluary Search rused to efficiently locate a target vilue within a sorted sequence of in elements maintains 2 parameters, low and high, such that all candidate cutries have index at least low and at west high. mid = L(low+high)/2] -> If target = data[mid], stop - it toget & data[mid], recur on first half of sequence (mid-1) - it target > duta[mid], necur on second half of sequence (mid+1) def hinary-search (data, turset, low, high): if low > high: return false else: mid = (low thigh)/2 if target == data[mid]; netura True elif target 4 data[mid]: 11 recur on left side of arr return binary search (data, target, low, mid-1) else: 11 recur on right return binary - search (data, torget, mid+1, high) Peccursive Function to Calculate Disk Usage: return bytes used by folder of descendant def disk\_usage (path): total = Os. path. getsize (path) if os. path. isdir (path): for flename in os. listdir(rath) chlidpath = os. rath.join(ruth, filename) total += dkk\_ usage (childpath) print ('{D:473', format (total), path) return total

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