Longest consecutive sequence for i in range (1, lon(intervals)): else: cnf -=1 def dfs (node): max_cnt=max(cnt, max last merged = merged [-1] def les(nums): risited add (node) longest=0 for neigh in graph [node]: if intervals [i][0] & last-merged return max-cnt num-set = set(nums) if neigh not invisited: HRRAY (Array) last-mojed [1] = max(for m in num-set: Best time to buy & sell stock Ifs (neigh) if n-1 not in num-set: last-merged[1], intervals
[:][1] (max alj] - ali] where is nbr-comp=0 length=0 for in range (n): unile n + length in num-set: def max Profit (Prices): merged.append(intervals[i])
return merged
Non if i not in risited! min-price = float ('inf') length +=1 num-comp += 1

dfs (c)

refun num-comp longest = max (longest, max-profit = 0 Non-overlapping, Internals (mn. re fun longest length) for price in prices: nbr. of intervels to remove to if price < min = price. Graph rated free (check of INTERVAL CINTERVAL) make non-overlapping) Insert interval (into non-overlapundbrected graph is tree) elif price-min-prices me def erase Overlap Intervals (intervals): def validame (ni edges): ping intervals sorted by start) Intervals. sort (Key = tambda x: x[1]) return max-profit if not ni return True def insert (intervals, new Interval): end = float(1-inf1) adj = 1 i:[1 for inrarge(n)] Product of away except itsel non-overlapping =0 in = 0, len (intervals) for i in range Elen(intervals)): for ninz in edges: daf product Except Self (nums) while irn and intervals [i][1] < if intervals[i][o] >= end: adj In11. append(n2) n= len(nums) new Interval [0]: non-overlapping +=1
end = intervals [i][1] adj In21. append (n1) answer = [1]* n result.append (intervals [i])
i += 1 left-prod = 1 risit = setc) return len(intervals) - non-overlapping while irn and intervals[1][0] T= for i in range (n): def dfs (i, prev): answertil = left - product Heeting Rooms (Are all intervals nonnew Interval [1]: if in visit: newlateral [0] = min(newlateral [0]) left-prod += numsti] return False over Lappingi) def can Attend All Heetings (Intervals): intervals [i] [o]) right- prod=1 visit.add(i) for in range (n-1,-1,-1): intervals. sort (Key clambda x:x[0])
for i inrange (1, len (intervals)): new Interval [1] = max (new Interval [1], for j in adj[i]: answer[i] # = right-prod right-prod # = nums[i] intervals [i][1] if j== prev: il = intervals[i-1] result. append (nau Interval) re furn answer if not dfs(j,i): 12 = intervals [i] Haximum Sum Subarray if (1511 > 1260]: result. append (intervals [i]) def max Subar (nums): return False retur True cur_sum= nums [0] return of (0, -1) and n == lon(usit) 1+=1 refunn True Meeting Rooms 2 (Hin. nbs of rooms Merge Intervals (Herge Overlapping return result max-sum = nums[0] Nor. of connected compenents in for num in nums [1:1: def min Meeting Rooms (intervals):
if not intervals:
return 0 Cur_sum = muz (num; cur_ an Vundirected gilph Intervals) def merge (intervals): def count components (n, edys): max_sum=max(max_sum if not intervals: times = [(el[o], o) for el in intervals] graph= [i:[] for in range (n)] refurn None intervals.sort (Kay=tambola x: X
merged = [] + [(el[1],1) for el in intervals] return max-sum for un in edges: Haximum Product Subara times. sort (key = lambda x: x [0]) graph[1] append (v) merged = [] def muz Prod (nums): merged. append (intervalstal) graph[v]. append (u) max-cnt = float ('-inf')
for t in bimed: if not nums: return 0 cur-max = numsco] risited = set() if test == 0: cur-min = numscol