

Course on Basic Data Structures (C++)

D. Given 2 avrays xdy, find no. of pairs of distinct integers (i,i) s.t. x[i] - x[i] = y [i] - y[i]. 29 · X 2 3 1 5 (0,2)

J. X. 3 1 5 (2,0) Ams. 2 y. 9 2 11 Sol:xli] - xlj]z y[i]- y[j] =) x[i]-y[i] 2 x[i]-y[i]

um f; for (120; 1< n; ++1) 1 [x [i] - y [i]] ++; ans 20; for (ant: f: f) Ell. nz f. second; 3 ans + = nx (n-1),

2 distinct & order metters $N \times (n-1)$

5-> zi-yi 25 n_{2} (n-1)

a list of strings. Find the De have number of boiss (ii) s.t. o < i < j < n-1 donn a balindrome. (1,1) bededechd

dbeedechd Wi [ab, bcdede, cbd] (0,1) abbedede => No 1(0,2) abbaba a) No Ans 2 1

1) Order doesn't metter 2) Parities of frequencies of diff. characters matter 3) In W(i) + W(j), number of daracters with odd fry should be less than

5, 5, 5, hash (s)

b. 0 b, b, 0 0 Q

0, 2, 2, 4, 8, 16 — - - 23

Possible volues of xor

=> Min-time vela remove 2) Velue of alkey 10 recent 2 Update time of a particular. 2) remove a particular ky

ky + time ky + value

time -> kry

Required: yet -> 0(1) Put -> 0(1)