Dext Permentation 2 a roangement an[] 2 [3 12] ie next element that we so by dictionary ordes. E gia of appears half OKITU) ender for experience 2 extraveted. and Himper 3, 1 2) mxt permth. for a or [] = [3 2 i]. Joseph personeta then so for smallest personeta English surerate all permeth in sorted order.

Locate the current permeth vising linear

Search

and = nxt permeth.

to not permeth. M2) -> C++ STL next permutation (A-begin(), A-end()); 1008 Kg18 Ms optimal: o observation to (1) next/later elements in dictionary fend to have a longer doors serves prefix match. Au Aturagel' sajs ram, ran 67 OUL)5 008h5 18 [2154300) Dexa oxt per onutu will have a 2 onger profix match. Basic Idea 5 So fix some porefix & ceith lates part - see if we can create a permutu Greates than it

92 [21543,00). cannot form 2154 300; Sout Greaty fixed 5003 & Cannot O30.5 & Cannot Create >300. 2 15 4 300 fixed rem Is cannot create 1300 en 200 de per meter with achien is > 4300 St. 54300 fixed rem -> cannot creato >84300 2 154300 ixed Tem. ses south will On generate is:

O 0 1 3 48 \$ 100

X

Boz it not

Y 5 3 10 -> greates permuting with Social board Apple tuny 5,3 1000 - woo Bresto from it 2184300

3 D 5 4 3 000 till here we couldn't create ie (5) at this poon (5) (to sout just (8) seates than i) -> a permutu to create a greates no. for just the nxt greater July is this the solo? pesonut. at the right of 1 sime ve nos >/ creater a greater 2 15 4 3 0 2) then figure out cultait is the noxt pesonetu. > figure out the lot dip from the right (ber for just > lat the night from that of itn clem (iedip cuive) itnelem poon, keeply the longest - choose the smallest prefix constant) elen > dip elem for fre oight cleurs.

am[]=[2154300] place here 23 puroruta) observ B (5 4 00 1. i'e smallest Pesonute of it corre vouch - his orgint o in sorted order oroach is if find the dip. 1 2 3 4 S) No dip Salar \$ [5432]) and true sour permuta -> So reverse it for ans. S2) find the smallest clem greates fran dip elem & some since lest to front in one order Search from back

s3)

2 1 5 4 3 00.

Find the smallest

30 >1 & swep

them.

3 5 4 1 & 0 0.

m) this is maintained.

8 ort this portion reverse it