Sort or Array with Os, 15 and 25 Approache Suppose () Brute Force 12,0,2,1,1,0,1,2,0,0) (2) Oplimized Brute forces sort(vec.begin, vec.end()) (3) Optimal - Optimized Approache O(r) (zpayse) Court of Zeros, Ones, Twos T car be done

4 4 1 in single loo in single loop r= num. Size counto, count1, count2 For (inti=0;icn;itt)} if (non [i] ==0) countOtt; elseif (non [i]==1) count 1++) else count 2++; int idx=0 for (int i=0; iccount); itt)

for (inti=0; iccount1; itt)

now [idx++]=1

plinal Approach O(r) -> Single Pass Notional Flog Algorithm 2,0,2,1,1,0, 1,2,0,0 Jugh Use 3 pointer Crap - Used for Unsorted Generts 7 0 to ROW-1 Ungerted = (mid high) swop (A[Q], A[u]) midt

