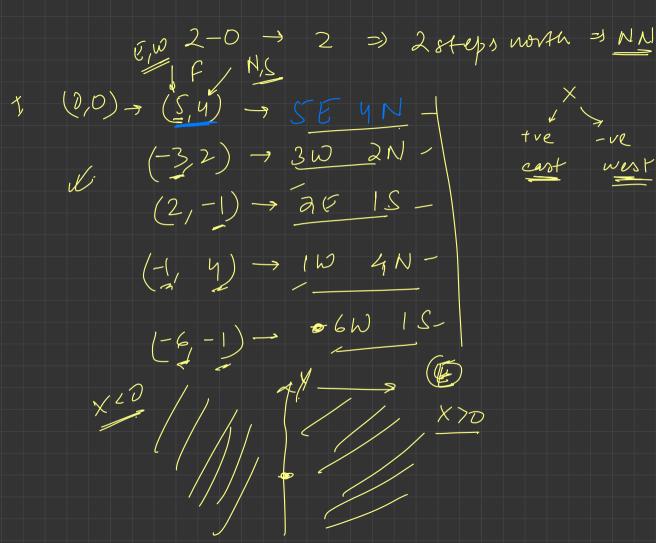
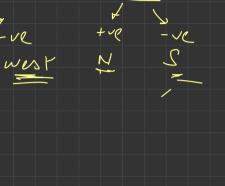
Lecture 8 M E W

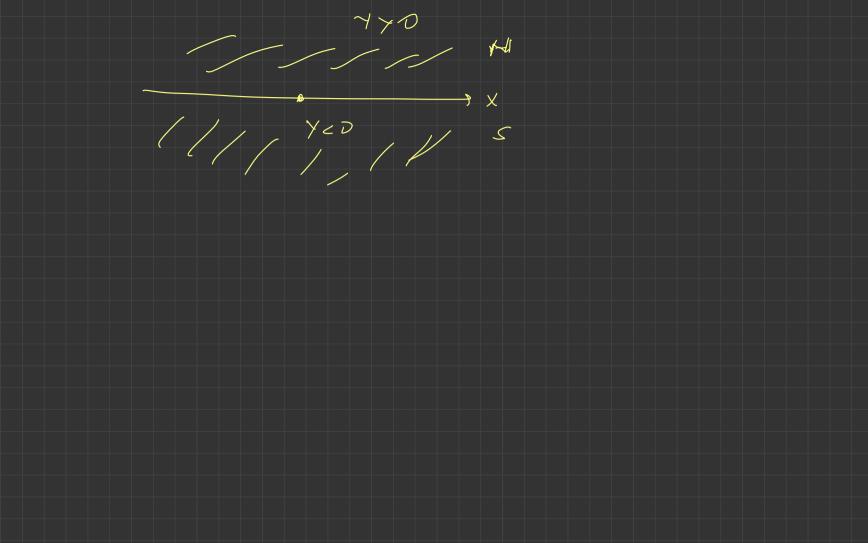
no start at (0,0) assuml, - D - 5 Final (O, O) - no steps I - NE 11 -> N, W II -S, W V1W $\overline{IV} \rightarrow S_{,}\overline{E}$ YH N

movement in x - dix: (E, W) -> Xf - Xi tue -ve -go east go west 1xx -Xil times y-dy: {N,53 -> 4, - 4; + ve - go north -ve - go south 14- Yil times

JUZ .







R.I. Count number of ends with \$. words, characters, lines when input today 13 triday, 10 words? and if is also

cher 1. Jan, 13, 2023\$ D-2. Court number of digits, whitespace, uppercase, lowercase and special characters (except \$) anding with \$. Array - de daration Array initialization int arr[5] = {1,2,3,4,5); cut arr [n]; $a\gamma\gamma(0)\rightarrow 1$ char corr[n]; arr[1] -> 2 600/ barr[n]; $arr[v] \rightarrow 3$ double - arr [2] + 4 8ize=3 arr[u]-15 2, 4, 9 }; isitalize?! int arr[]= { input - storing in each index. arr[2] = 9

Assumption: All the values is the array are unique. for (1:0; 1<n; (++) { arr[i] - picked element in () bool is Unique = true; for (j-0; j < n ; j + t) { -> if (xrr[i] = = arr[j] 28 i !=j) {
 is Unique = false;
} if (is Unique == true) {

cout << arr[i] << '; Assumption: Any value can be the part of the pair. → X=8 (X-arrli)-) Pick element 1 check whether (x-arr[i]) exists at j ti. Solvel] true -> pair

for(1=0, icn; (++) { arrij = - X -arrij for (j=0 ; j=n; j+t) { éf(i!=j && arr[:]+arrlj]==x)} cont < arr[i] < arr[j] zemd);

N 76 U Some