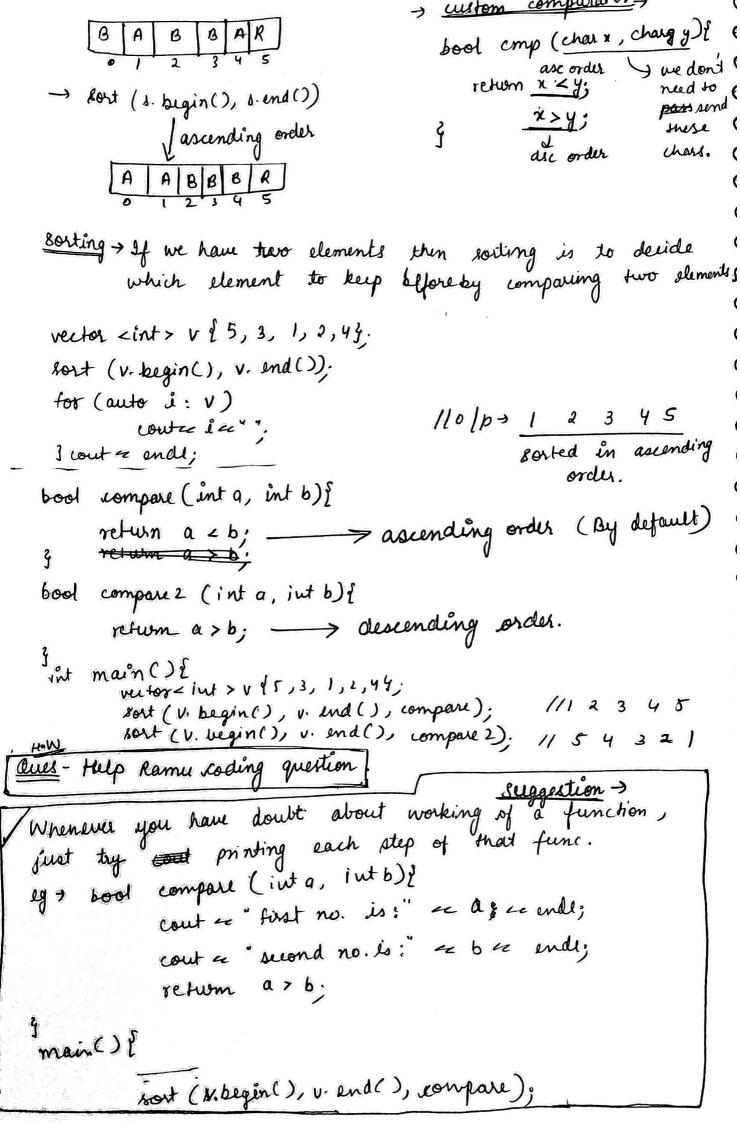
```
01/ Mar/3023
                        Char Arrays & smings
                                             , what
                                           (), find(), erase(), replace(),
                Locreate
                                           Ls diff
                                              substr (), empty (), length (),
                Ls memory
                4 BO 10'
                                             push-back (), pop-back (),
                4 drawback
                 -) lungth
       stronge
     stelen
                 is replace
                 4 palindrome
      streat
           lowerare/uppercase
       Questions-
              → Valid Palindrome
              La Remove all adjacent duplicate
                          all occurrence of substring.
The the the the total deliber
              Ly Remove
           Ly win time sifference substring.
                                  (s Brute force > 0 (n3)
          बहुत-बहुत
                                           () add sellish > 0 (n2)
                                  2-pointers
             imp.
                             and custom comparator >
       O Sort
           sning s = babbar
           sort (s. begin(), s. end());
                                                110/p + aubbbr
           cout ex see endl;
                                                        lenicographical order.
      This string is converted into ascending
       order, ket we want it in descending order.
            to do this?
               L) by custom comparator.
            emp ( char first, char second) {
                 return first > a second;
       z
       int main () {
             string s = "babbar";
             sort (s. begin (), s. end (), imp);
                                                 110/p - 8666aa
            coul ex 1;
```



```
# 2 character sum > we have to nort a string according to their character
                        "rahul" sunday" good
               "babbar"
            love = 12 +15+22+5 = 54
           babbar = 2+1+2+2+1+18=26
           rahul = 18+1+8+21+1 = 49
           sunday = 19+ 21+ 14+ 4+ 1+25 = 79
            good = 7+15+15+4= 26+15= 41
                                                  elements
      and > babbar good takel "Love" sunday"
             A type of data structure in which walnut
              are stored in form of key-value pairs.
                     values
                                   here key is numeric.
                                    and value is character
                                     type.
     Ucreation of maps ->
      map < int, char, muskap;
      meramap [0] = 101;
      meramap[1] = 'b';
      meramap[25] = '2';
      cout = meral valu: " = meralap[0] = mdl; //0/p= &
      cout ~ " value: " ~ meramap[21] ~ endl;
                                 110/b+ Value: rempty.
Why we use map?
      Because in unordered map insertion and accessing
time complexity is O(1).
```

Out here the T.C is O (logn).

for (auto val: are) [

cout ex val;

By using auto we do not need to tell emplicitely the datatype of element.

manimum find

int mani = INT_MIN;

Recommend to

Put mini = INT_MAX;

these.

INT_MIN and INT_MAX are macros.