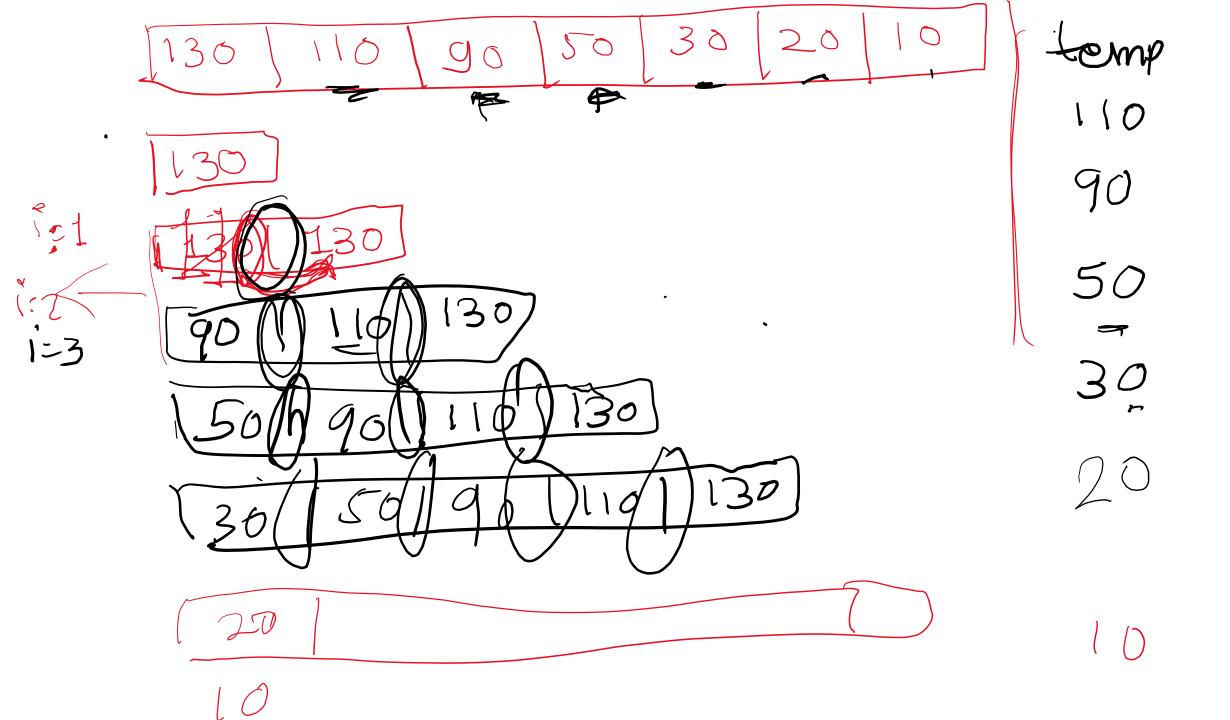
Let's solve it



Insertion Sort Sort while you insert Already sorted Data 50 50 90 110 130



90 (30 ()0 20 30 50 10 30 13 D 130 130 (30) 90 3 /

10 30 50 90 130 150 10 30 50 90 130 130 1

20

10 30 50 90 110 130 130 10 30 70 90 110 110 130 11 30 50 90 110 130 10 30 30 50 90 110 130 10 20 30 50 90 110 130

for(i=1; i<7; i+1) tobe Presided = data Antij for (j=i-1; j>=o; j--) $\begin{cases} if (comp = an(i)), \\ an(i+1) = an(i)), \end{cases}$ an CitiJ = tempi

| j#(=)

```
for(i=1;i<n;i++)
 int temp;
 temp = array[i];
 for(j=i-1;j>=0;j--)
 if(temp<array[j])</pre>
    array[j+1] = array[j];
  else
   break;
 array[j+1] = temp;
```

```
i=1;
while(i<n)
 temp = array[i];
 j=i-1;
 while((j>=0)&&(temp<array[j]))</pre>
    array[j+1] = array[j];
    j--;
 array[j+1] = temp;
 i++;
```

Notice that the best handolde part of the array starting single cloment sorted grows with ordoring insert bogic into sorted array step by step at every insertion. Hence, while meenting new clament into it from night ade end are only compare with last most, Dhigh in turn the biggest sirted thus for.

Alm, notree that this program Changes vivio lac sume menory, and hen re it is in-place technique, If dry 1/cates are present notice the Joehavous of their relative location. By the pre sorbing order of edistence is maintained then it is stable sorting to hinghe. * somongt duplicates i.e. 5, 5, 5c > 5, 5c Andrit JB Sn 5c like