

Sort an arr using recursion

↳ Known approach has recursion seekhane ke liye.



2 3 5 8 7 6 4 9 $\leftarrow \text{Sort(arr, n)}$

\downarrow
 $\text{Sort}(\text{arr}, n-1)$ 2 3 5 8 7 6 4 9

we assume it is sorted in hypothesis step

as 2 3 4 5 6 7 8

where to put 9

in induction step find pos of 9 and insert it

```
for(i=0; i<n; i++)  
    if(arr[i]>ele)
```

break;

shift 1 element ahead
insert ele