Insertion Sort

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The original sequence.



4 1 2 1 8 9 3

Set 1st element as sorted part.



4 1 2 1 8 9 3

Others are unsorted part.



4 1 2 1 8 9 3

Enumerate elements in unsorted part.



4 1 2 1 8 9 3

temp:

Copy the value to temporal variable.



temp:

4 1 2 1 8 9 3

temp:

Find the foremost element great than the current element.



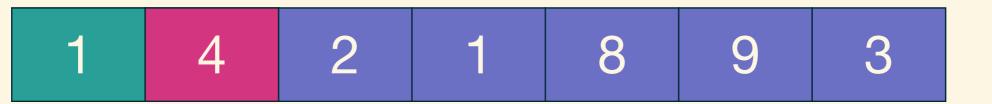
temp:

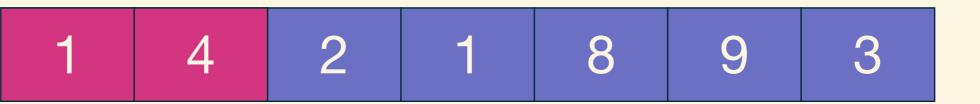
4 4 2 1 8 9 3

temp:

1 4 2 1 8 9 3

temp:





1 4 2 1 8 9 3

Enumerate next element.



1 4 2 1 8 9 3

temp:

Copy the value to temporal variable.



temp:

1 4 2 1 8 9 3

temp:

Find the foremost element great than the current element.



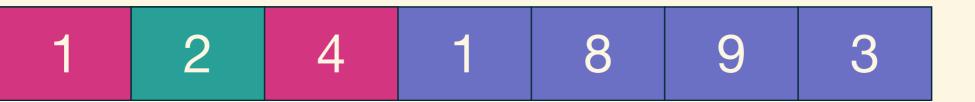
temp:

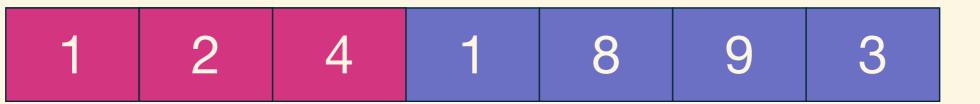
1 4 4 1 8 9 3

temp:

1 2 4 1 8 9 3

temp:





1 2 4 1 8 9 3

Enumerate next element.



1 2 4 1 8 9 3

temp:

Copy the value to temporal variable.



temp:

1 2 4 1 8 9 3

temp:

Find the foremost element great than the current element.



temp:

Find the foremost element great than the current element.



temp:

1 2 2 4 8 9 3

temp:

1 1 2 4 8 9 3

temp:





Enumerate next element.



temp:

Copy the value to temporal variable.



temp:

temp:

No element is greater than the current element in sorted part.



temp:

temp:

1 1 2 4 8 9 3

temp:





Enumerate next element.



temp:

Copy the value to temporal variable.



temp:

temp:

No element is greater than the current element in sorted part.



temp:

temp:

1 1 2 4 8 9 3

temp:





Enumerate next element.



temp:

Copy the value to temporal variable.



temp:

temp:

Find the foremost element great than the current element.



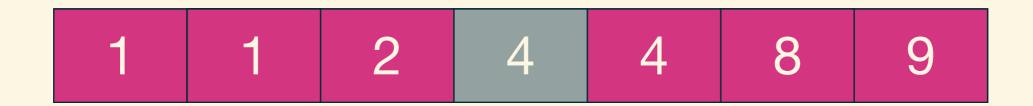
temp:

Find the foremost element great than the current element.



temp:

Find the foremost element great than the current element.



temp:

1 1 2 4 8 9

temp:

1 1 2 3 4 8 9

temp:





Sort completely!



End

