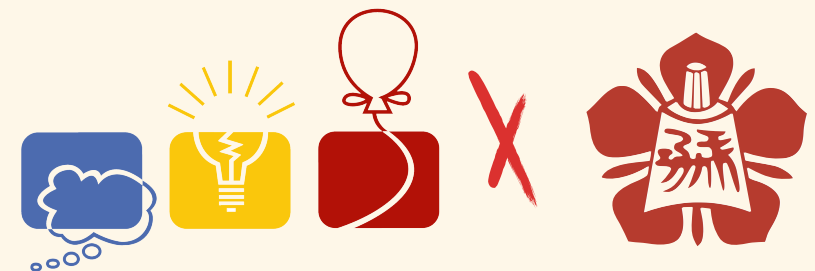


Insertion Sort

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Latest update: Mar 3, 2013

The original sequence.

4	1	2	1	8	9	3
---	---	---	---	---	---	---

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.





temp:

Copy the value to temporal variable.



temp:





temp:



Find the foremost element great than
the current element.



temp:





temp:



Insert the element.



temp:

Insert the element.



Insert the element.



1	4	2	1	8	9	3
---	---	---	---	---	---	---

Enumerate next element.





temp:

Copy the value to temporal variable.



temp:





temp:



Find the foremost element great than
the current element.



temp:





temp:



Insert the element.



temp:

Insert the element.



Insert the element.



1	2	4	1	8	9	3
---	---	---	---	---	---	---

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:

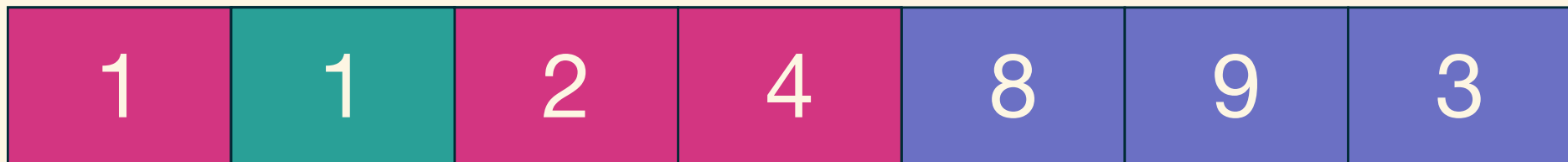




temp:

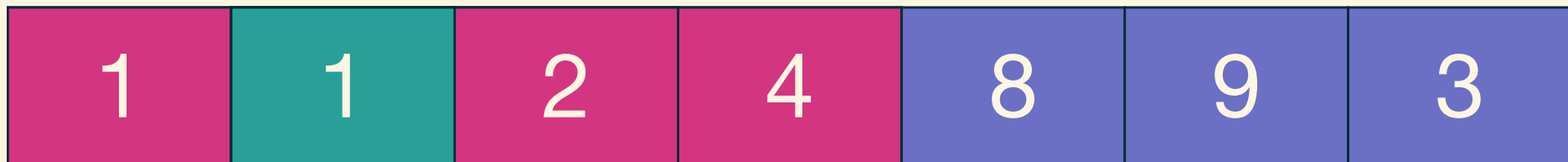


Insert the element.

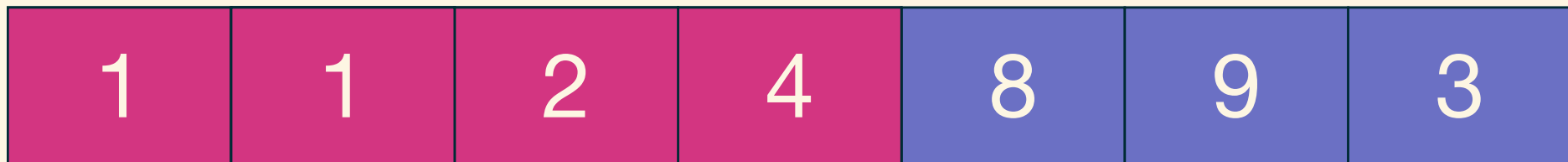


temp:

Insert the element.

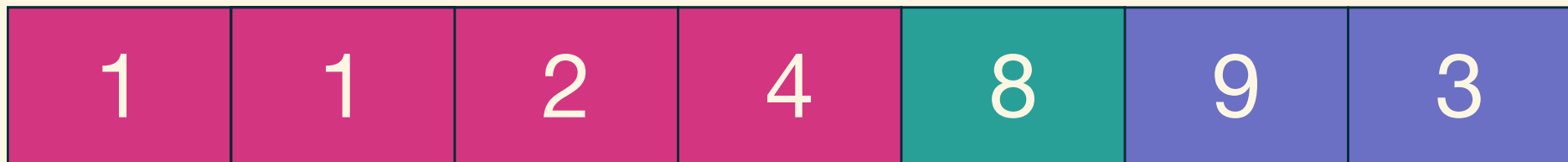


Insert the element.



1	1	2	4	8	9	3
---	---	---	---	---	---	---

Enumerate next element.





temp:

Copy the value to temporal variable.



temp:





temp:



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



temp:

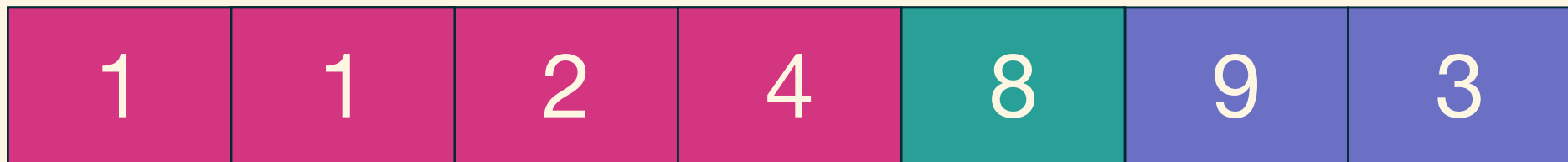




temp:

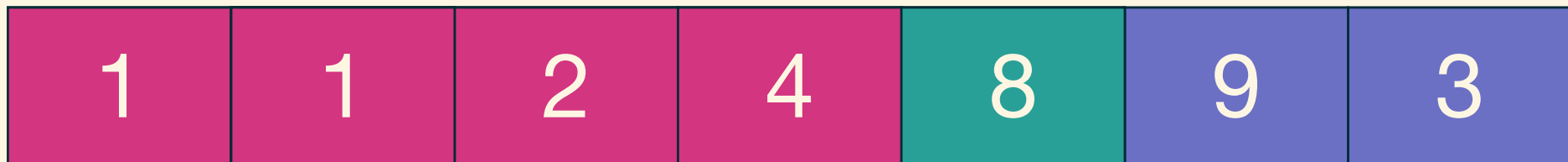


Put back.



temp:

Put back.

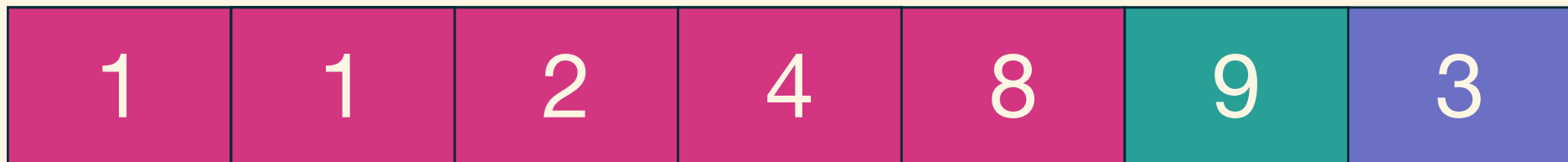


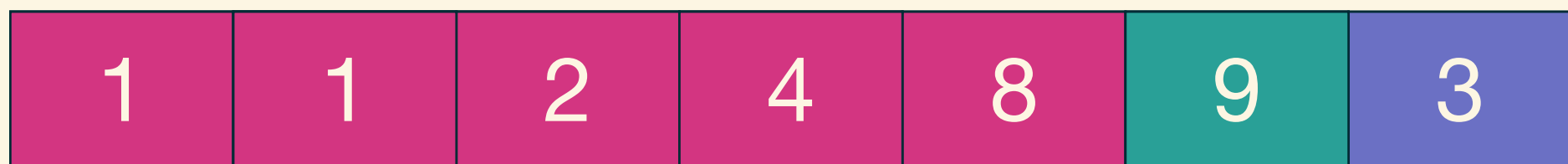
Put back.

1	1	2	4	8	9	3
---	---	---	---	---	---	---

1	1	2	4	8	9	3
---	---	---	---	---	---	---

Enumerate next element.





temp:

Copy the value to temporal variable.



temp:





temp:



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



temp:

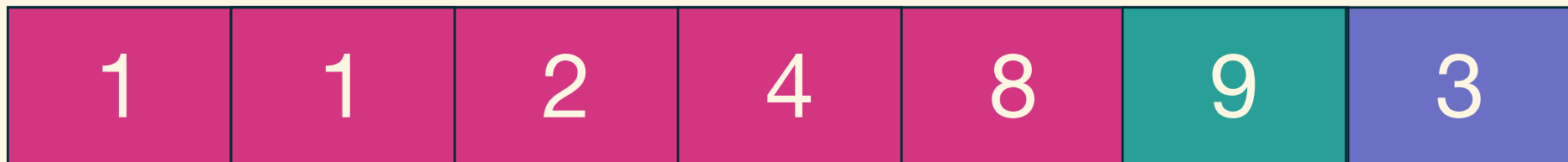




temp:



Put back.



temp:

Put back.

1	1	2	4	8	9	3
---	---	---	---	---	---	---

Put back.

1	1	2	4	8	9	3
---	---	---	---	---	---	---

1	1	2	4	8	9	3
---	---	---	---	---	---	---

Enumerate next element.

1	1	2	4	8	9	3
---	---	---	---	---	---	---



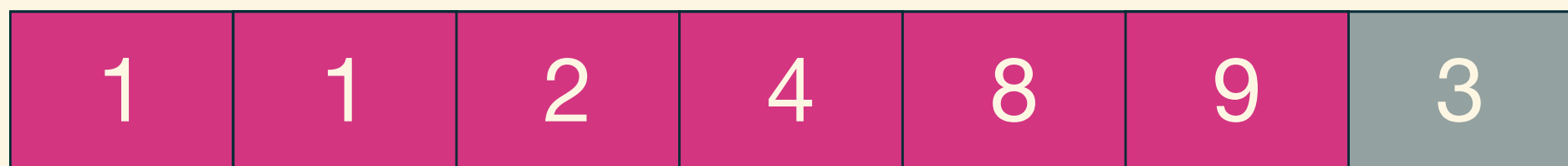
temp:

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:





temp:



Insert the element.



temp:

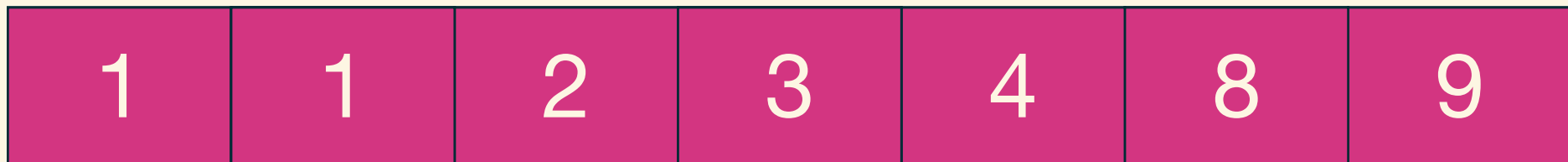
Insert the element.



Insert the element.

1	1	2	3	4	8	9
---	---	---	---	---	---	---

Sort completely!



End

