

Example:

7	2*	5	3	2

```
Code: public void insertionSort(int[] array)
      {
        for(int stage = 0; stage < _____; stage++) {
          int temp = _____
          int i = _____
          while( i >= _____ && _____ ) {
            _____
            _____
          }
          _____
        }
      }
}
```

## Analysis: (Let array.length = n)

<b>Stages</b>	
<b>Comparisons</b>	
<b>“Shifts”</b>	
<b>Stable?</b>	
<b>Works really well when...</b>	
<b>Works poorly when...</b>	
<b>Miscellaneous</b>	

Decide based on the state of the array which sort is being used. If it's neither insertion or selection, write "neither".

<b>9</b>	<b>6</b>	<b>8</b>	<b>7</b>	<b>2</b>	<b>5</b>
6	8	7	2	5	9
6	7	2	5	8	9
6	2	5	7	8	9
2	5	6	7	8	9
2	5	6	7	8	9

\_\_\_\_\_

<b>2</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>5</b>	<b>9</b>
2	4	7	1	5	9
2	4	7	1	5	9
1	2	4	7	5	9
1	2	4	5	7	9
1	2	4	5	7	9

\_\_\_\_\_

<b>6</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>9</b>
6	5	4	3	2	9
2	5	4	3	6	9
2	3	4	5	6	9
2	3	4	5	6	9
2	3	4	5	6	9

\_\_\_\_\_

<b>4</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>9</b>
4	5	1	2	7	9
4	1	2	5	7	9
1	2	4	5	7	9
1	2	4	5	7	9
1	2	4	5	7	9

\_\_\_\_\_

<b>1</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>8</b>	<b>10</b>
1	3	2	9	8	10
1	2	3	9	8	10
1	2	3	9	8	10
1	2	3	8	9	10
1	2	3	8	9	10

\_\_\_\_\_

<b>5</b>	<b>9</b>	<b>8</b>	<b>4</b>	<b>2</b>	<b>1</b>
5	1	8	4	2	9
5	1	2	4	8	9
4	1	2	5	8	9
2	1	4	5	8	9
1	2	4	5	8	7

\_\_\_\_\_