| Values <= Pivot value |
| --- |
|  |
| Values > Pivot value |



1. Move left pointer until it is pointing at a value > pivot

| 5 | 3 | 1 | 1 | 2 | 6 | 4 | 2 | 4 | 8 | 3 | 6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



1. Move right pointer until it is pointing at a value <= pivot

| 5 | 3 | 1 | 1 | 2 | 6 | 4 | 2 | 4 | 8 | 3 | 6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



1. Swap left and right and move pointers





| 5 | 3 | 1 | 1 | 2 | 3 | 4 | 2 | 4 | 8 | 6 | 6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



1. Repeat till left > right

| 5 | 3 | 1 | 1 | 2 | 3 | 4 | 2 | 4 | 8 | 6 | 6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |





| 5 | 3 | 1 | 1 | 2 | 3 | 4 | 2 | 4 | 8 | 6 | 5 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



1. swap pivot with right

| 4 | 3 | 1 | 1 | 2 | 3 | 4 | 2 | 5 | 8 | 6 | 6 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

