Selection sort

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Insertion sort

$$[7]$$
 2 5 9 6 2 1 4 9  $[7]$  2 5 9 6 2 1 4 9  $[7]$  2 5  $[7]$ 

do insertion

```
2 5 2 6 4
[12]
 2 5]
  2 5 2]
    2 5 6]
  2
     5 6 4]
  2 2
    2 4 5 6 7]
  2
 2245679]
9 97
             7
        5 6
      4
    2
```

Bubble sort

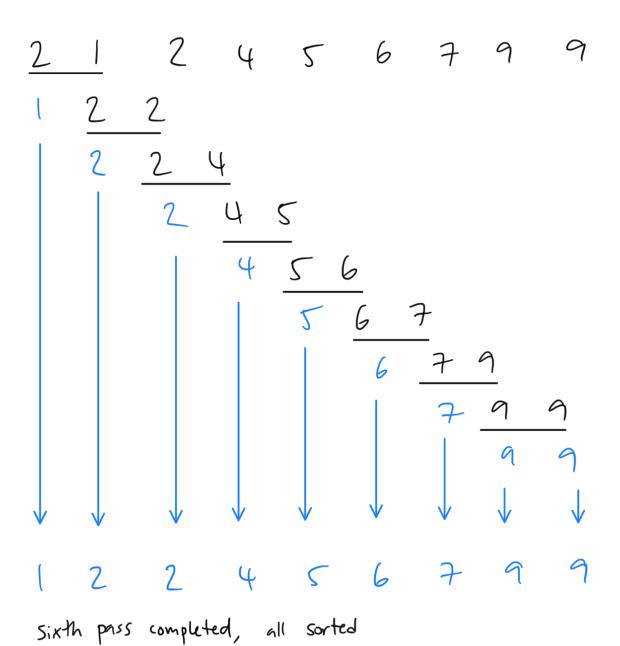
first pass completed

$$\frac{72}{2}$$
  $\frac{5}{3}$   $\frac{9}{4}$   $\frac{9}{6}$   $\frac{9}{2}$   $\frac{9}{4}$   $\frac{9}{9}$   $\frac{9$ 

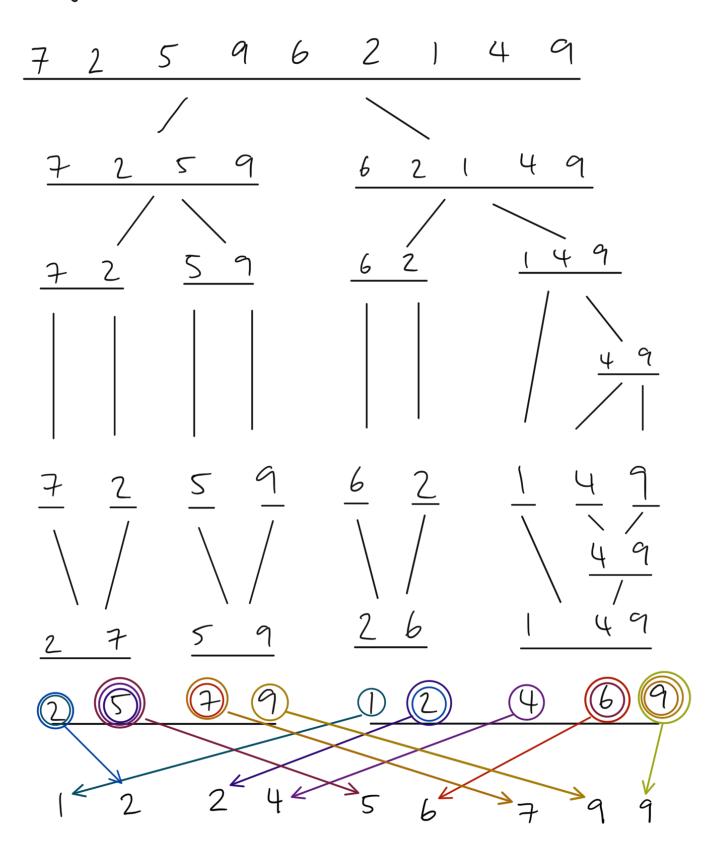
$$\frac{2}{5}$$
  $\frac{5}{7}$   $\frac{7}{5}$   $\frac{7}$ 

$$\frac{256}{56} = \frac{56}{56} = \frac{61}{164} = \frac{4799}{1467} = \frac{999}{1467} = \frac{999}{146$$

$$\frac{2}{5}$$
  $\frac{5}{2}$   $\frac{7}{2}$   $\frac{9}{2}$   $\frac{9}$ 



Merge sort



2	2	]	4	6	5	7	9	9
	2	2	4	6	5	7	9	9
	2	<ul><li>△</li><li>2</li><li>→</li><li>A</li></ul>	4	6	5	7	9	9
	2	→ 2	4	6	5	7	9	9
]	2	2	4	6	5	7	9	9
<b>☆</b> <	2	2	4	6	5	7	9	9
)	2	2	4	6	5	7	9	9
)	2	2		5	6	7	9	9
)	2	2	4	<u>\$</u>	6	7	9	9
)	2	2	4	<ul><li>△ -</li><li>≤</li><li>≜</li></ul>	→ <del>8</del> 6	7	9	9
)	2	2	4	5	6	7	9	9
)	2	2	4	5	6	7	9	9
1	2	2	4	5	6	7	9	
)	2	2	4	5	6	7	9	9