

Merge Sort Activity

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//divide 1 2 3 4 5 6 7 8 9 10 $A[1..10]$ $f=1, q=10$

5	9	1	3	-1	25	-3	-5	50	18
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①

$$q = \lfloor \frac{10+1}{2} \rfloor = 5$$

5	9	1	3	-1
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25	-3	-5	50	18
----	----	----	----	----

5	9	1	3	-1
---	---	---	---	----

25	-3	-5
----	----	----

50	18
----	----

5	9	1	3	-1
---	---	---	---	----

25	-3
----	----

-5

50	18
----	----

5	9
---	---

25	-3
----	----

// conquer

5	9
---	---

25	-3
----	----

5	9
---	---

1

3	-1
---	----

-3	25
----	----

5	50
---	----

18

1	5	9
---	---	---

-1	3
----	---

-3	5	25
----	---	----

18	50
----	----

-1	1	3	5	9
----	---	---	---	---

-3	5	18	25	50
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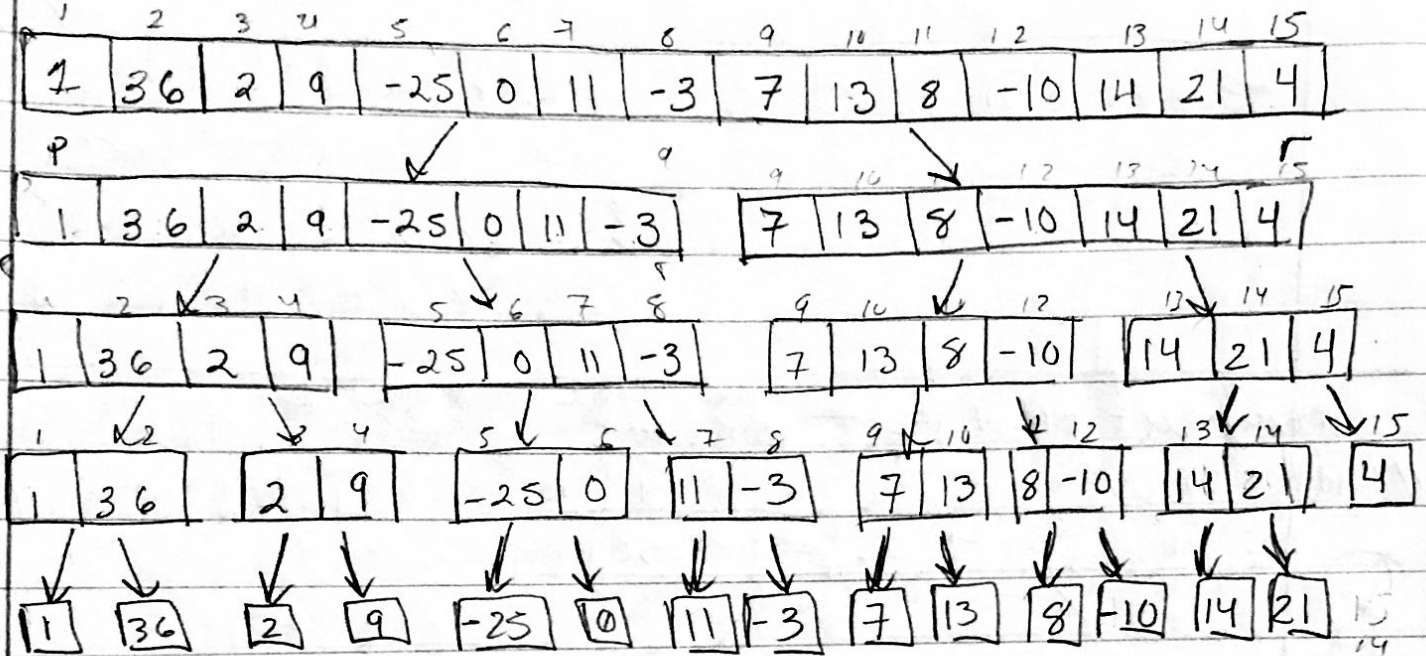
-3	-1	1	3	5	5	9	18	25	50
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Ryan Yergle
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// Divide

A =



// conquer

A =

