

Ques  $n \Rightarrow > 2$

$$a + b \Rightarrow n$$

$$\Rightarrow \underline{O(n * \log_2 \log_2 n)}$$

+

$$\underline{O(n)}$$

$$\text{left} = 1$$

$$\text{right} \Rightarrow n - \text{left}$$

$$\Rightarrow T \times n \log \log n$$

Ques Largest Prime number in the given range



Que Count number of Prime numbers

$1 \rightarrow n$

0	1	2	3	4	5	6	7	8	9	10	11
0	0	<del>1</del>	2	2	3	3	4	4	4	4	5

↑

Count  $\Rightarrow$  ~~0~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5

0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	0	1	1	0	1	0	1	0	0	0	1	0	1

Que Find unique element

1	5	3	7	-5	-1	7
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$\Rightarrow 3$

$$O(n) \times n \Rightarrow O(n^2)$$

$$0 \wedge 0 \Rightarrow 0$$

$$1 \wedge 1 \Rightarrow 0$$

$$1 \wedge 0 \Rightarrow 1$$

$$0 \wedge 1 \Rightarrow 1$$

1 0 1

1 0 1

$$a = 0 \wedge 1 \wedge 5 \wedge 3 \wedge 7 \wedge 5 \wedge 7$$

$$a = 0 \wedge 3 \Rightarrow 3$$