Graphical user interface, text, application, email

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See we need to find the smaller element just next to the element.

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This example with solution given.

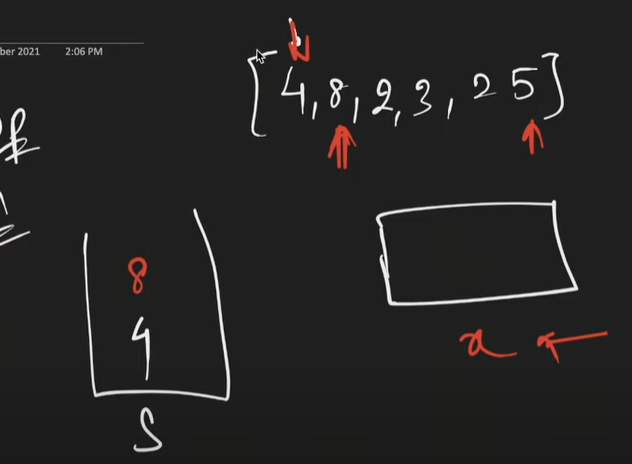
Logic on this.

A picture containing diagram

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See we will take stack and put the element from index 0 into the stack and then we will iterate from 1 to n-1 .

We will also take x where we will put 8 in it and check if this is smaller than 4 no. hence put 8 in stack.



See now put 2 in x.is 2 less than 4 yes. The we know 8 answer is 2.

Diagram

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Remove 8 from stack. Then check if 2 is smaller than 4 yes hence 4 ans is also 2.

Diagram, schematic

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Now see stack empty and hence don’t check just put 2 in stack. Go for 3 is 3 smaller than 2 not hence just put 3 in stack.25 the same not smaller than 3.see here stack is end. Hence remaining is -1.

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Here normally n but worst condition that is ascending order tc will be 2n.

Code:

Text

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See what happening here is 4 8 consider this 4 8 will be increasing order means when checking for 8 and 6 that 6 less than 8 then it means there 4 8 not between less than 6.meaning till less than comes the element in stack pop will be in decreasing order. And consider 8 out then in stack will be 6 4 which is still decreasing order.