![Graphical user interface, text, application, email

Description automatically generated]()![Graphical user interface, text, application, email

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Problem statement:

Now

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Like above to corridor given:

Find the 9th smallest number here.13 is the 9th smallest.

Here we don’t need to make array and just work on pairs.

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Consider we get this range of number. Hence, we need not make a large number of arrays as limit exceeded.

Hence don’t make array.

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Consider this here k=9 and 1,5 here k is greater hence will not lie here.

We need to go to second pair and here k current=4 can lie here hence this will give the ans.

If pair are opposite it will not be able to search in unsorted order.

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This can also be given.

Here 1,5 and 3,7 we need to merge.

Now code for this:

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Now how merge interval works:

![A picture containing text, clipart

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Here 1,5 and 3,7 1 will always be the smallest and max will either be 5 or 7.

![A picture containing text, clipart

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Next iteration be like.

Here 1,7 and 10,15 are different interval.

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Here idx is at position 1 index.

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