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Course Code : CSA0610

Course : Design And Analysis of Algorithm

41. Median of Medians

Aim: Find k-th smallest element.

Algorithm:

1. Start program.

2. Divide array into groups of 5.

3. Find median of each group.

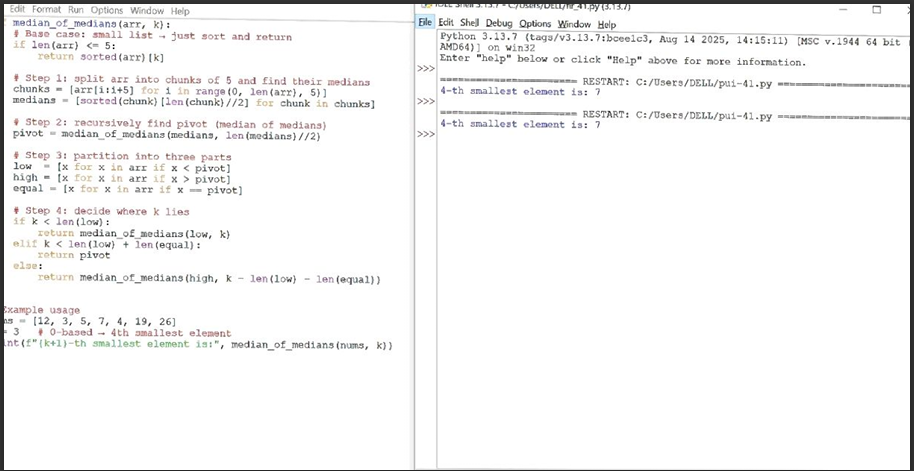
4. Recursively find median of medians.

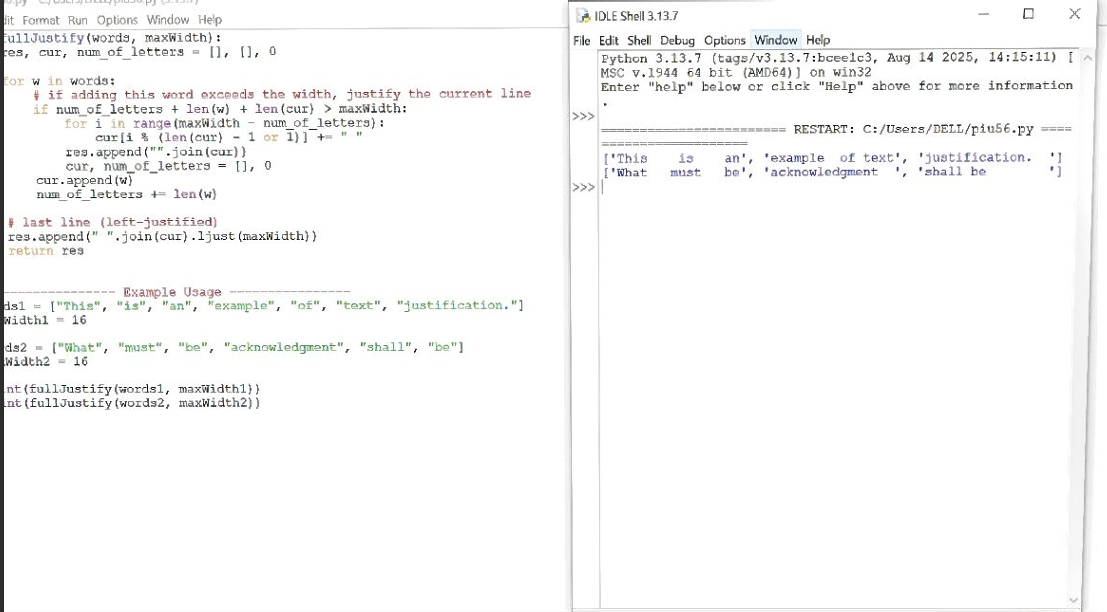
5. Use pivot to partition array.

6. Recurse to left or right partition based on k.

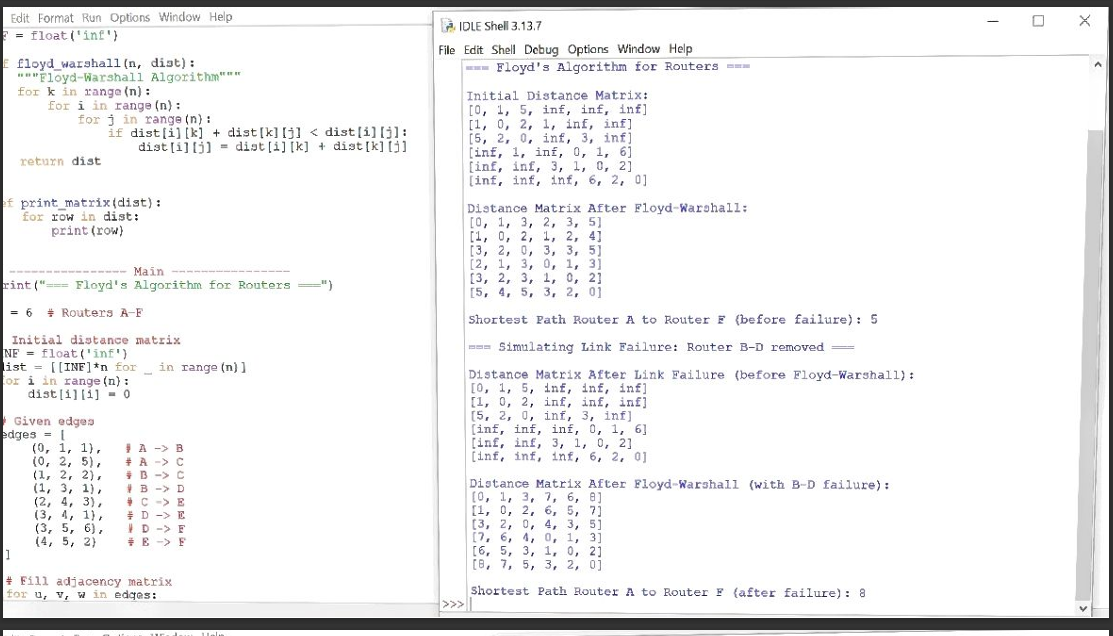
7. Continue until k-th element found.

8. Return k-th smallest element.

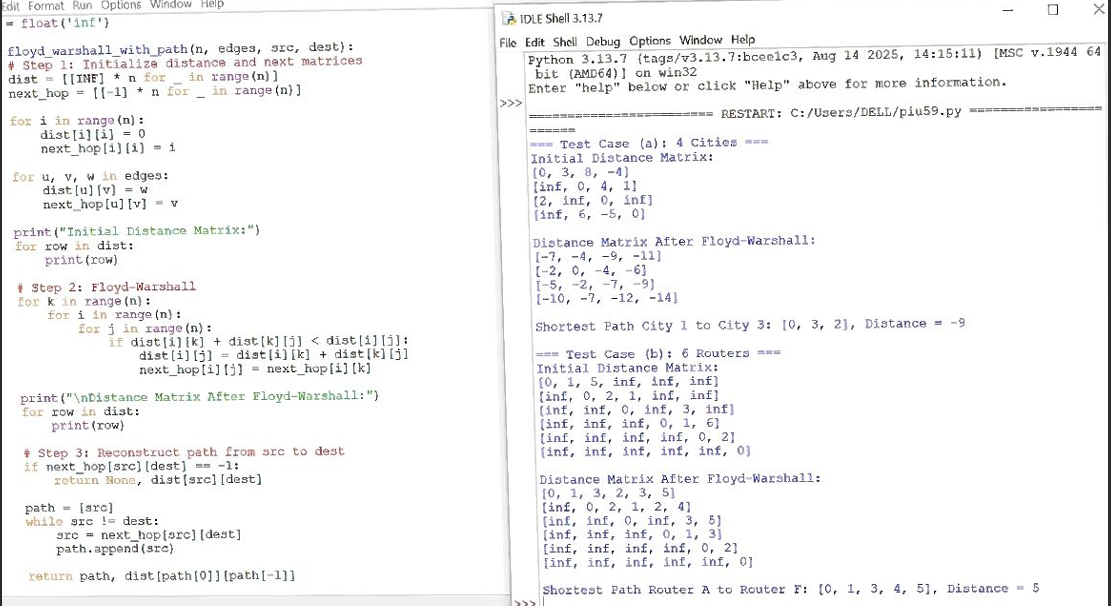


42. 

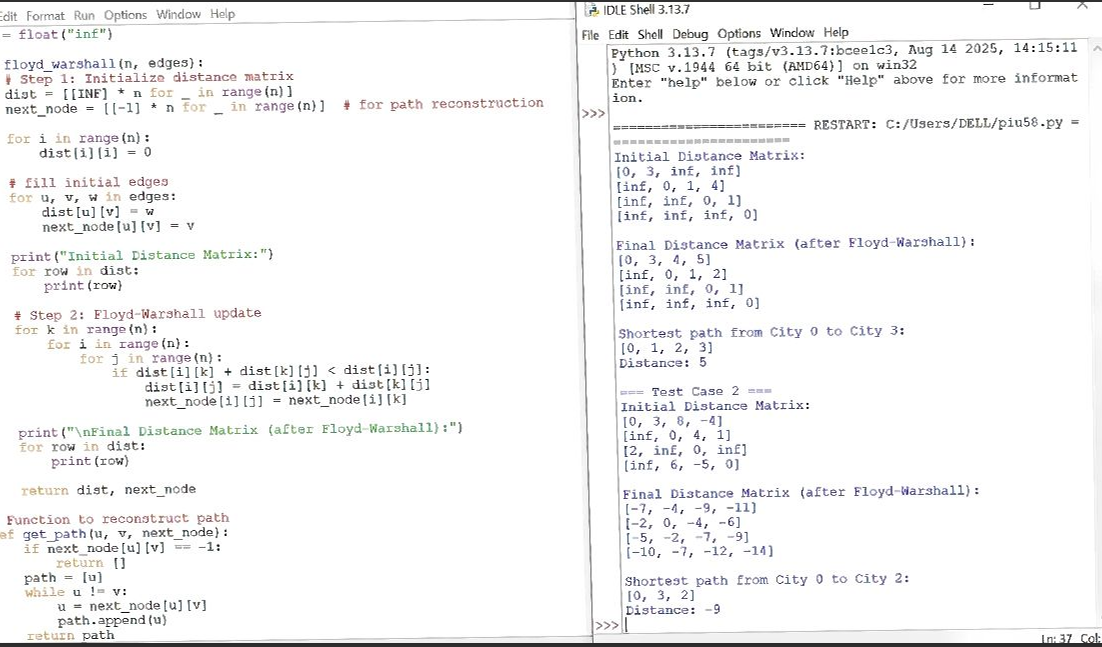
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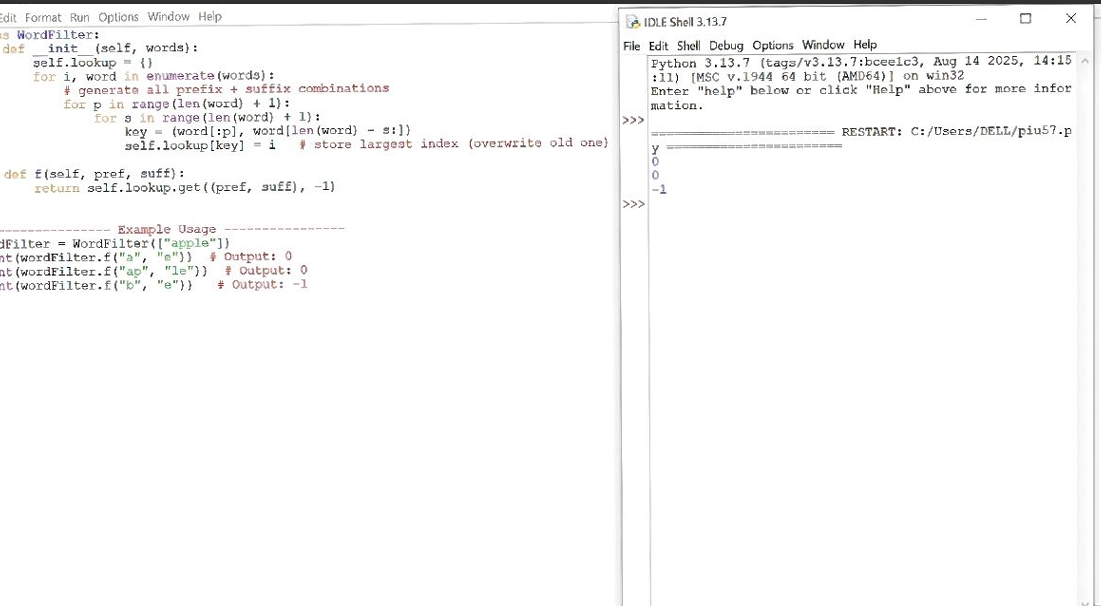
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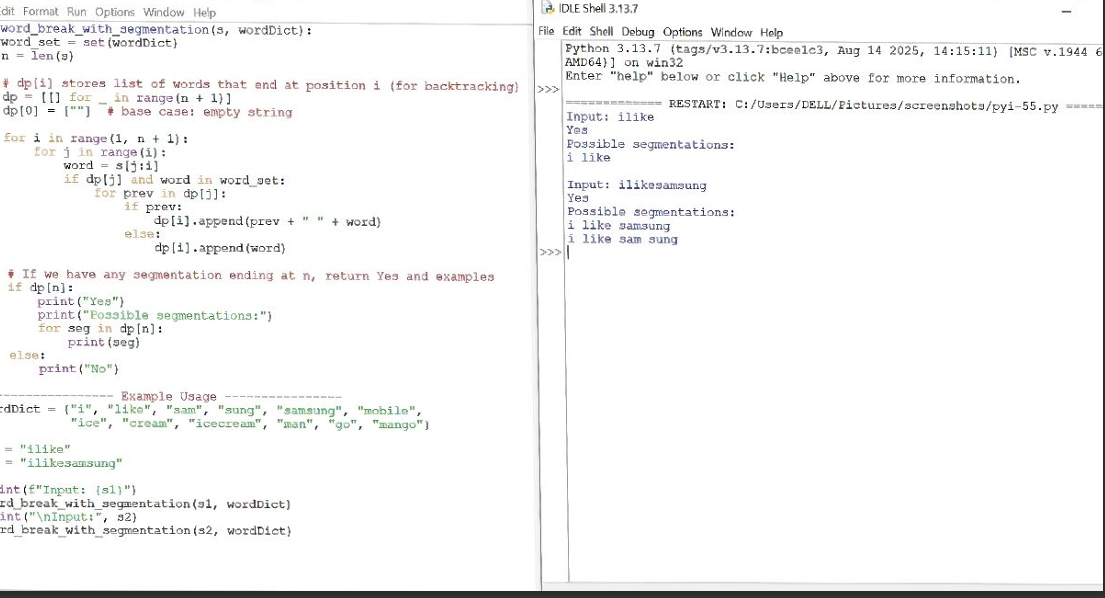
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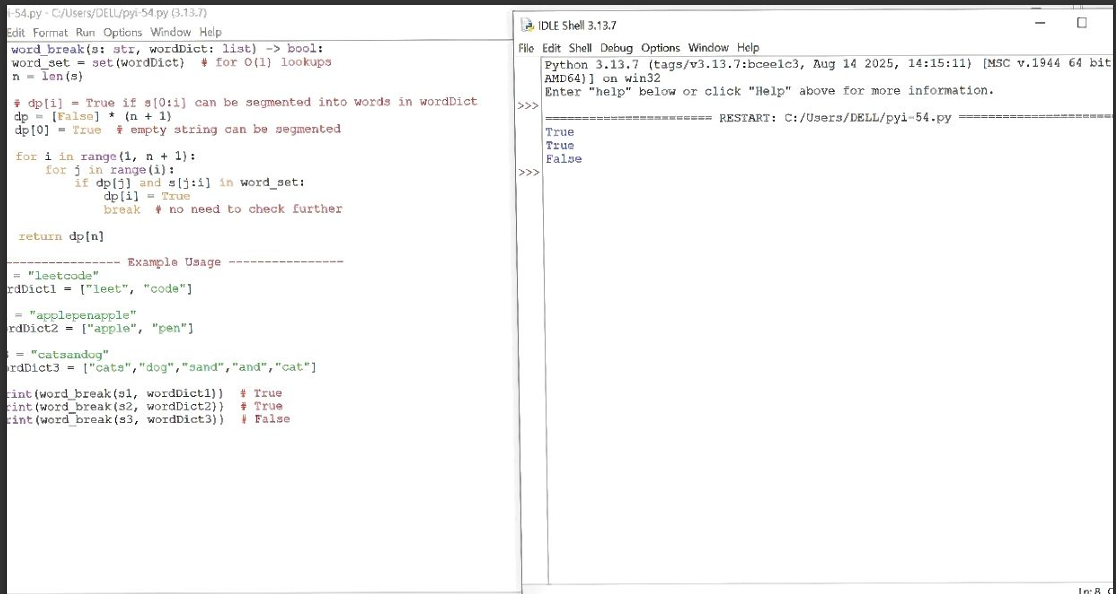
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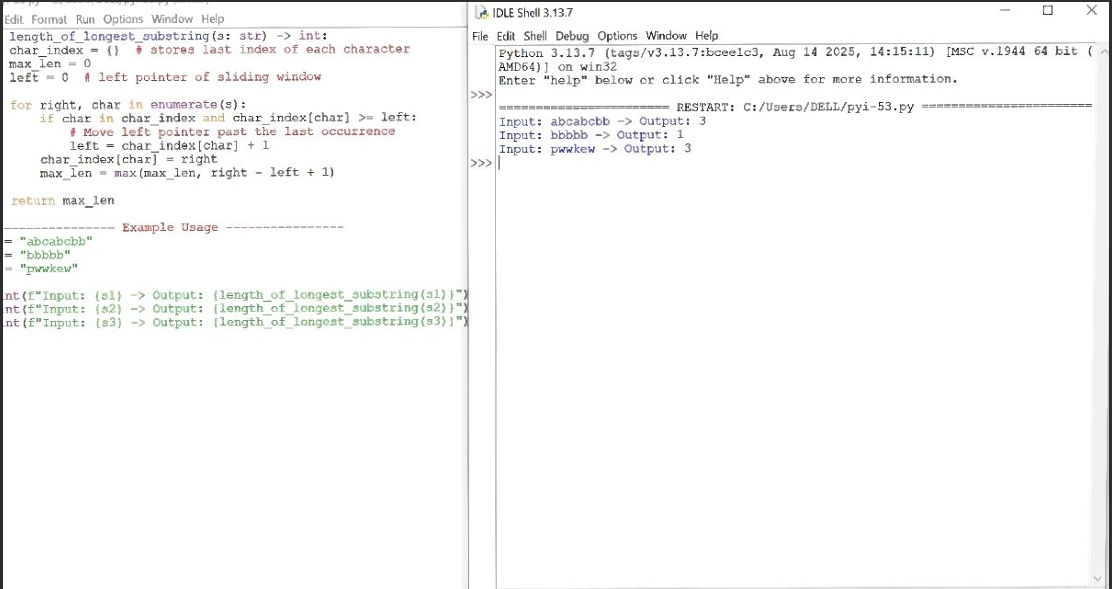
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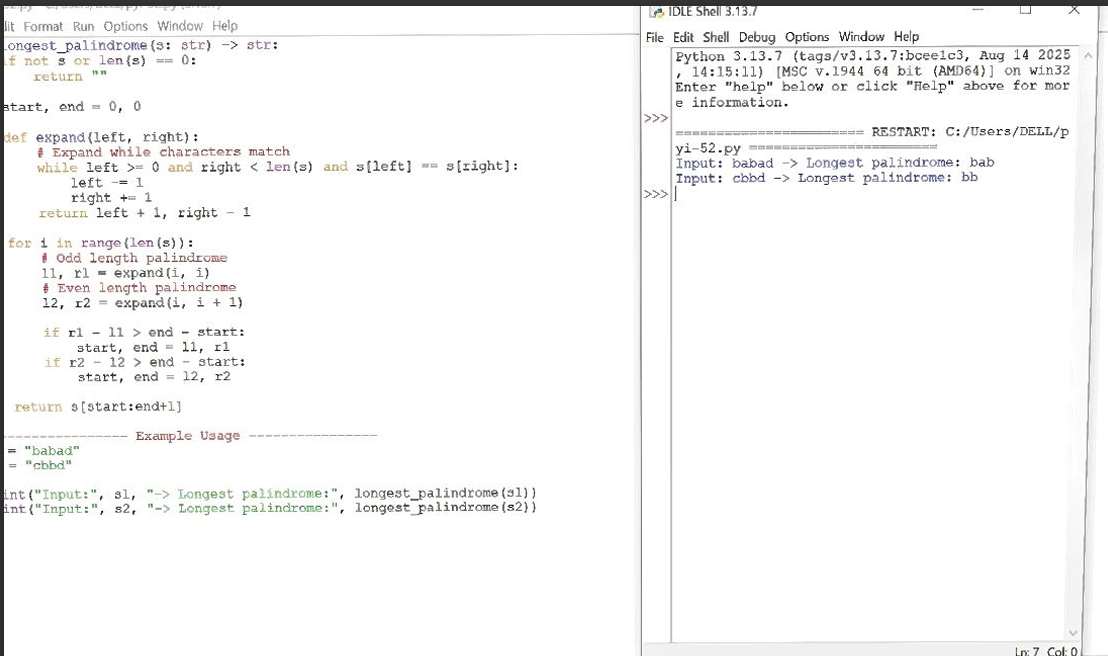
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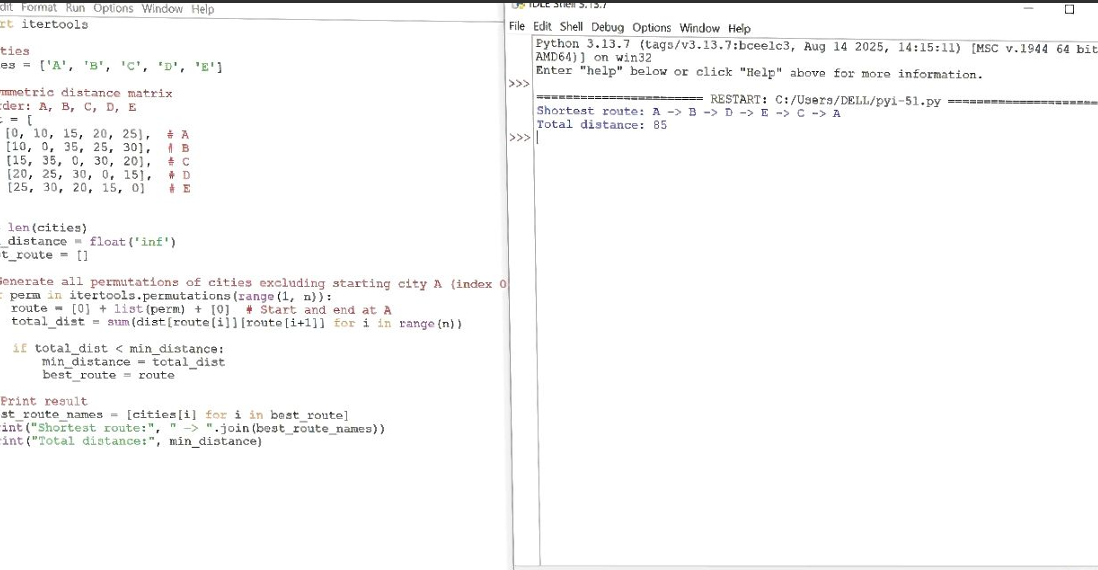
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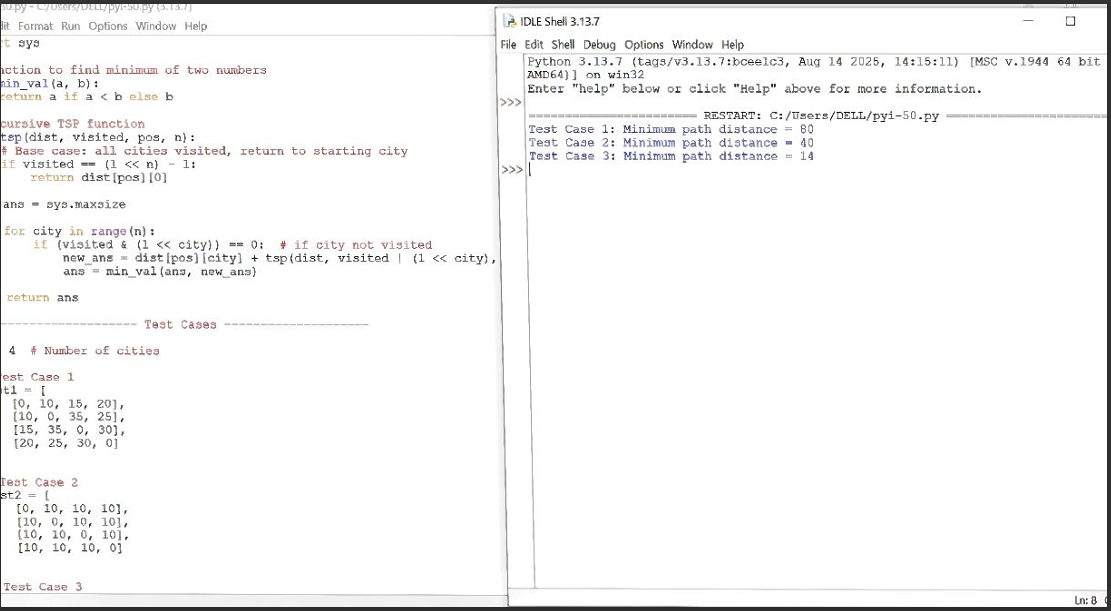


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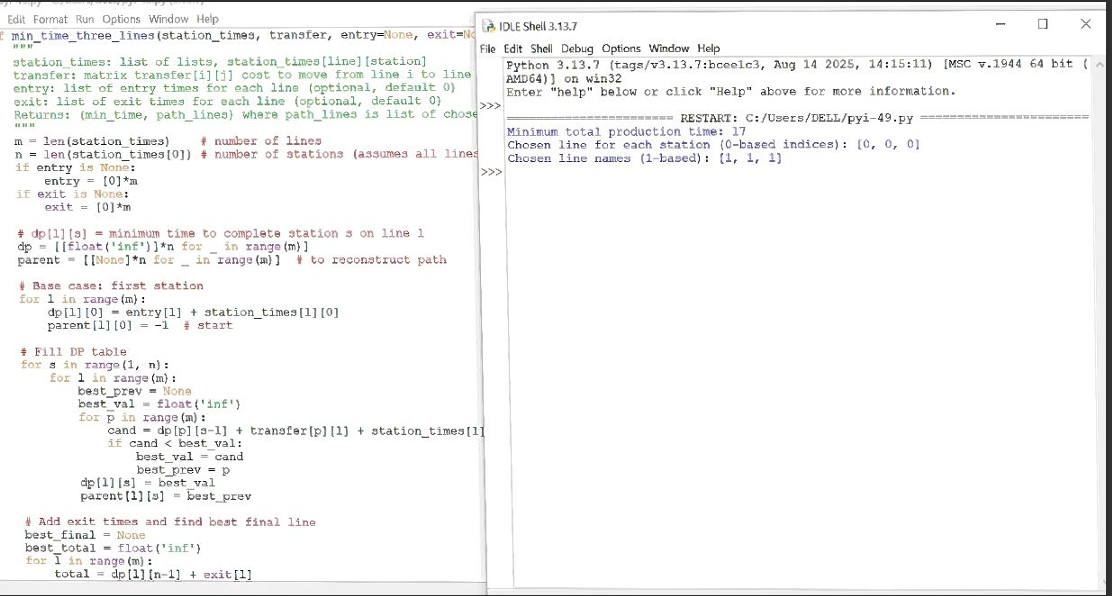


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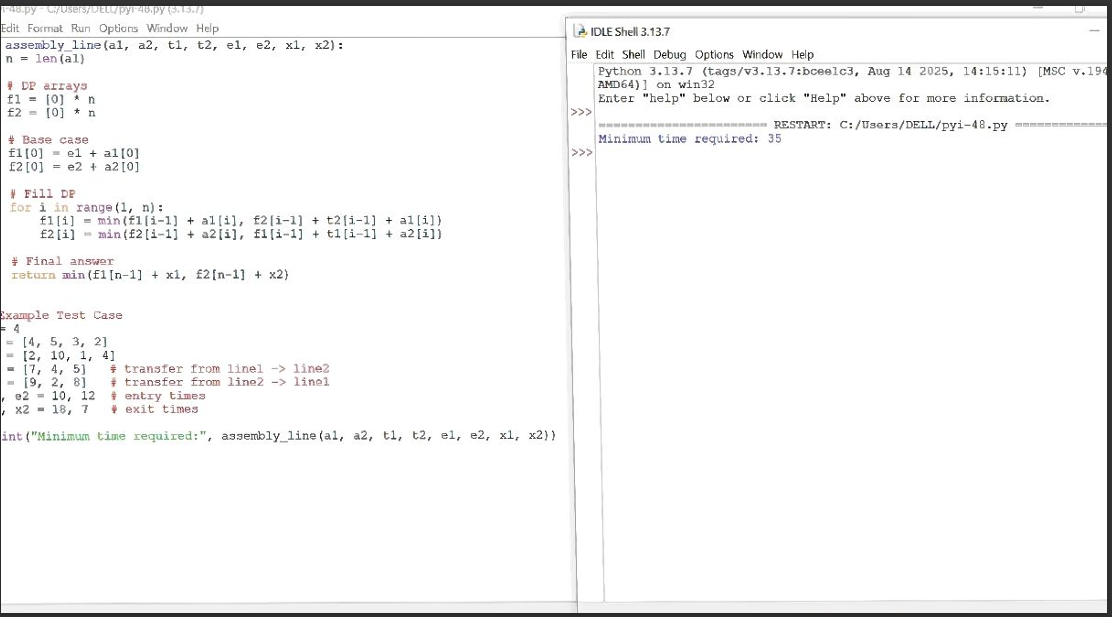


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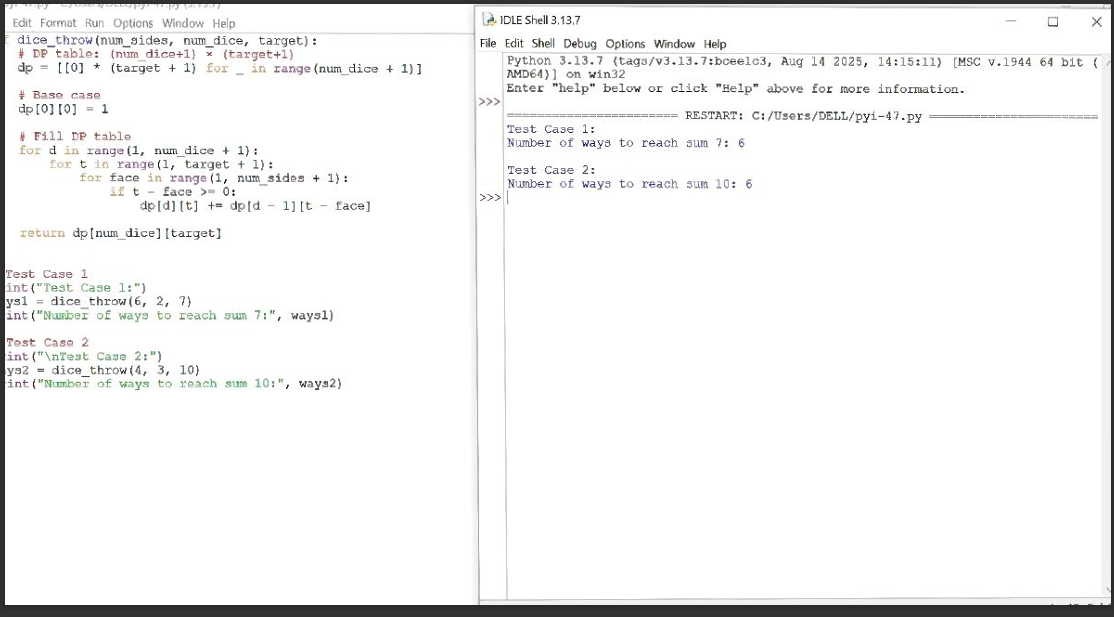
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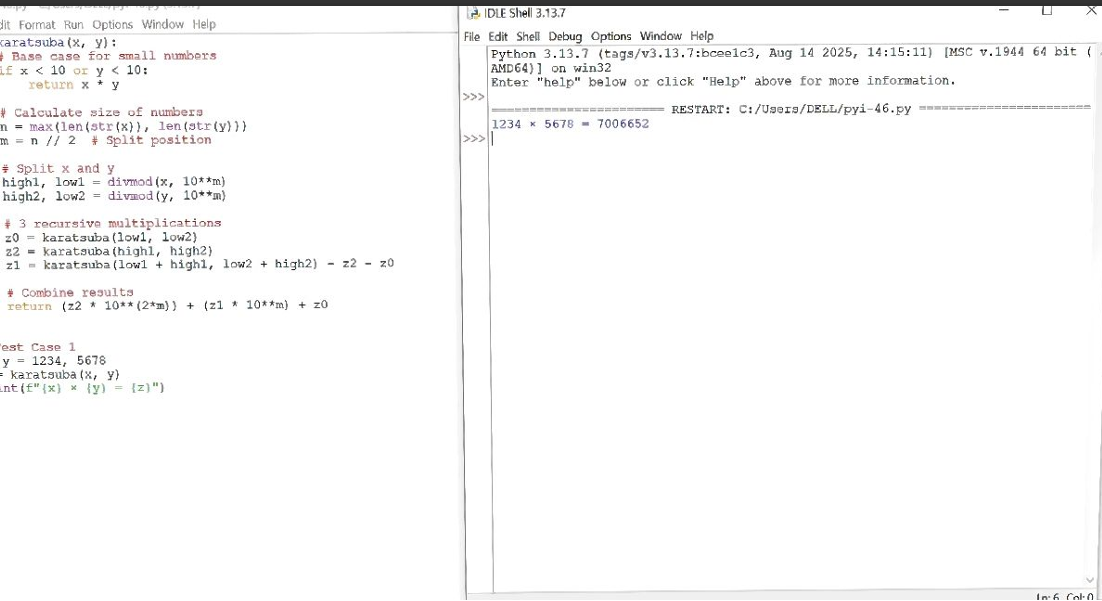
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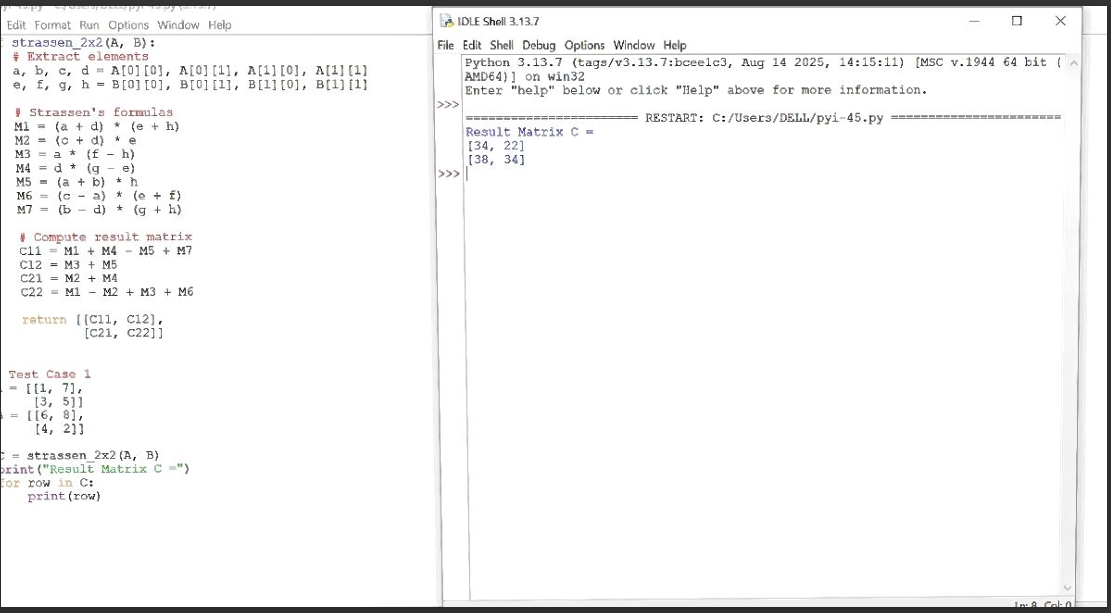
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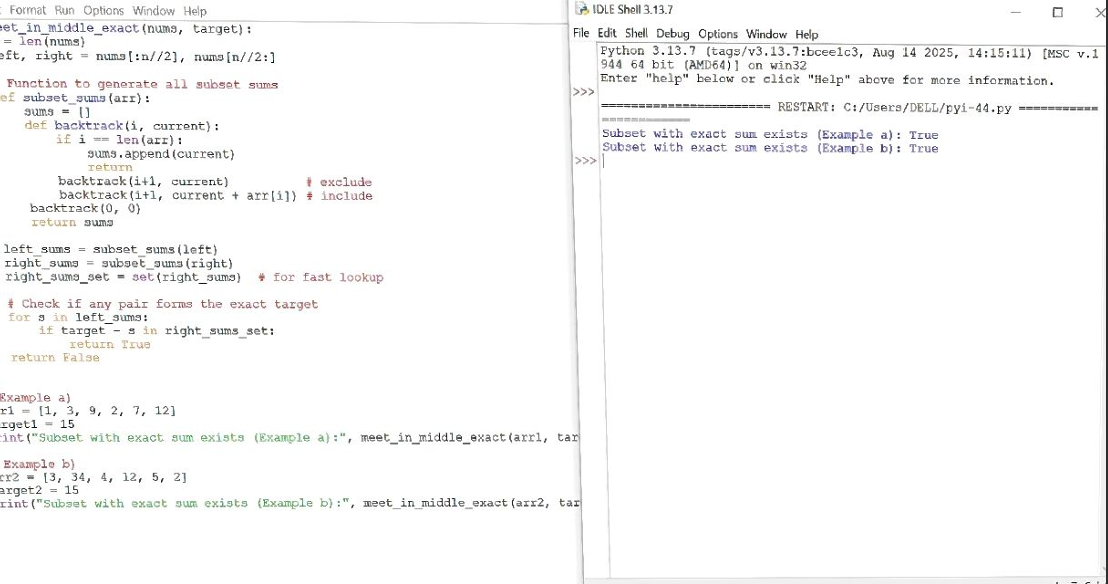
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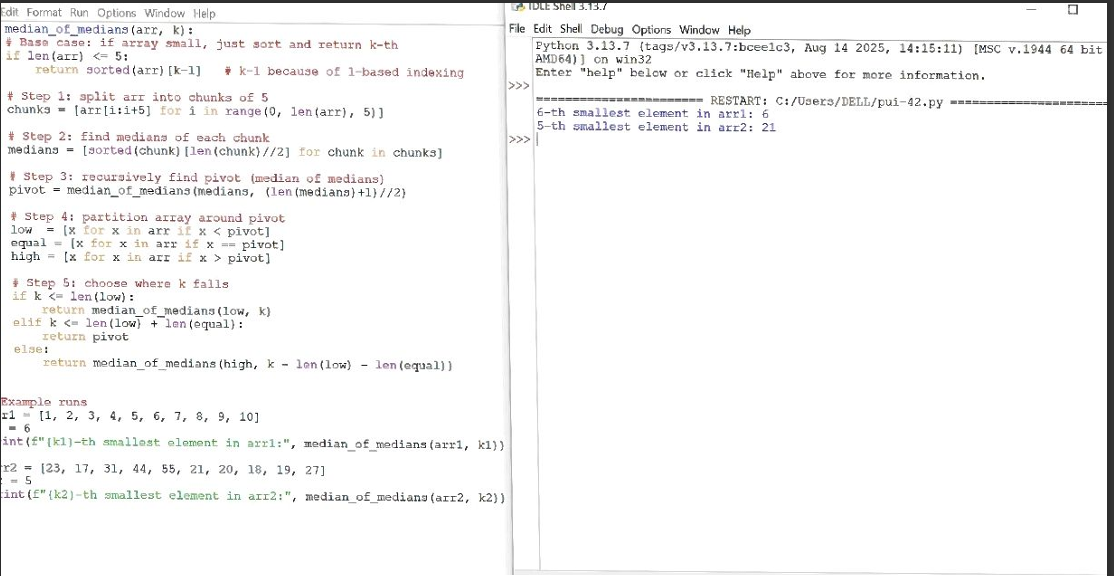
57.



58.



59.



60.

