Step	Algorithmic Sequ	Corresponding P	Stack State	Explanation	
1	Initialize an empt	stack = []	[]	The stack begins empty.	
2	Push "A", "B", "C	stack.append("A" stack.append("B" stack.append("C" stack.append("D"	["A", "B", "C", "D"	Elements are added one by one. D	
3	Pop the top two e	stack.pop() stack.pop()	["A", "B"]	The stack follows the LIFO (Last-In	
4	Push "E" onto the	stack.append("E"	["A", "B", "E"]	"E" is added on top of the current s	
5	Determine the to	top = stack[-1]	N/A	The last element in the list/stack is	
Result	The final top eler	print(top)	["A", "B", "E"]		

) is now the top.				

ı, First-Out) principle. "D" is removed, then "C" is removed. B is now the top.

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the top.				