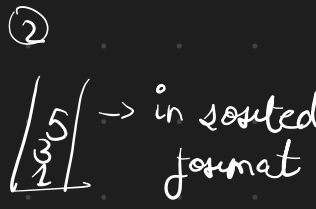
Sort a stack using recursion

1) Base
   ↳ If size == 1
     return;

for stack 

2) Hypothesis
   int ele = s.pop();
   Stack<Integer> res = sorted Stack(s);



3) Insert Ele at position
   insertAtEle(s, ele)

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for insertAtEle

1) If (stk.size == 0 || ele > stk.peek()) { Base step
   stk.push(ele);
2) int temp = stk.pop();
   insertAtEle(stk, ele); } hypothesis we assume element get inserted correctly
3) stk.push(temp); ⟶ Induction step