

3	2	1	4	7	6	5
0	1	2	3	4	5	6

You are given a **0-indexed** string `pattern` of length `n` consisting of the characters `'I'` meaning **increasing** and `'D'` meaning **decreasing**.

A **0-indexed** string `num` of length `n + 1` is created using the following conditions:

- `num` consists of the digits `'1'` to `'9'`, where each digit is used **at most** once.
- If `pattern[i] == 'I'`, then `num[i] < num[i + 1]`.
- If `pattern[i] == 'D'`, then `num[i] > num[i + 1]`.

Return the lexicographically **smallest** possible string `num` that meets the conditions.

Example 1:

Input: `pattern = "IIIDIDDD"`  
Output: `"123549876"`

IS Avg  
MAIT → amz  
not even → best off  
f

Handwritten notes and diagrams for the number construction problem. Includes a sequence of digits 3, 2, 1, 4, 7, 6, 5 and a diagram showing the construction of the number 123549876 from the pattern IIIDIDDD. The diagram shows the digits 1, 2, 3, 4, 5, 6, 7, 8, 9 being placed in a sequence that satisfies the pattern. The final output is 123549876.

Handwritten notes and diagrams for the number construction problem. Includes a sequence of digits 1, 2, 3, 4, 5, 6, 7, 8, 9 and a diagram showing the construction of the number 123549876 from the pattern IIIDIDDD. The diagram shows the digits 1, 2, 3, 4, 5, 6, 7, 8, 9 being placed in a sequence that satisfies the pattern. The final output is 123549876.

3/2  
a > 0

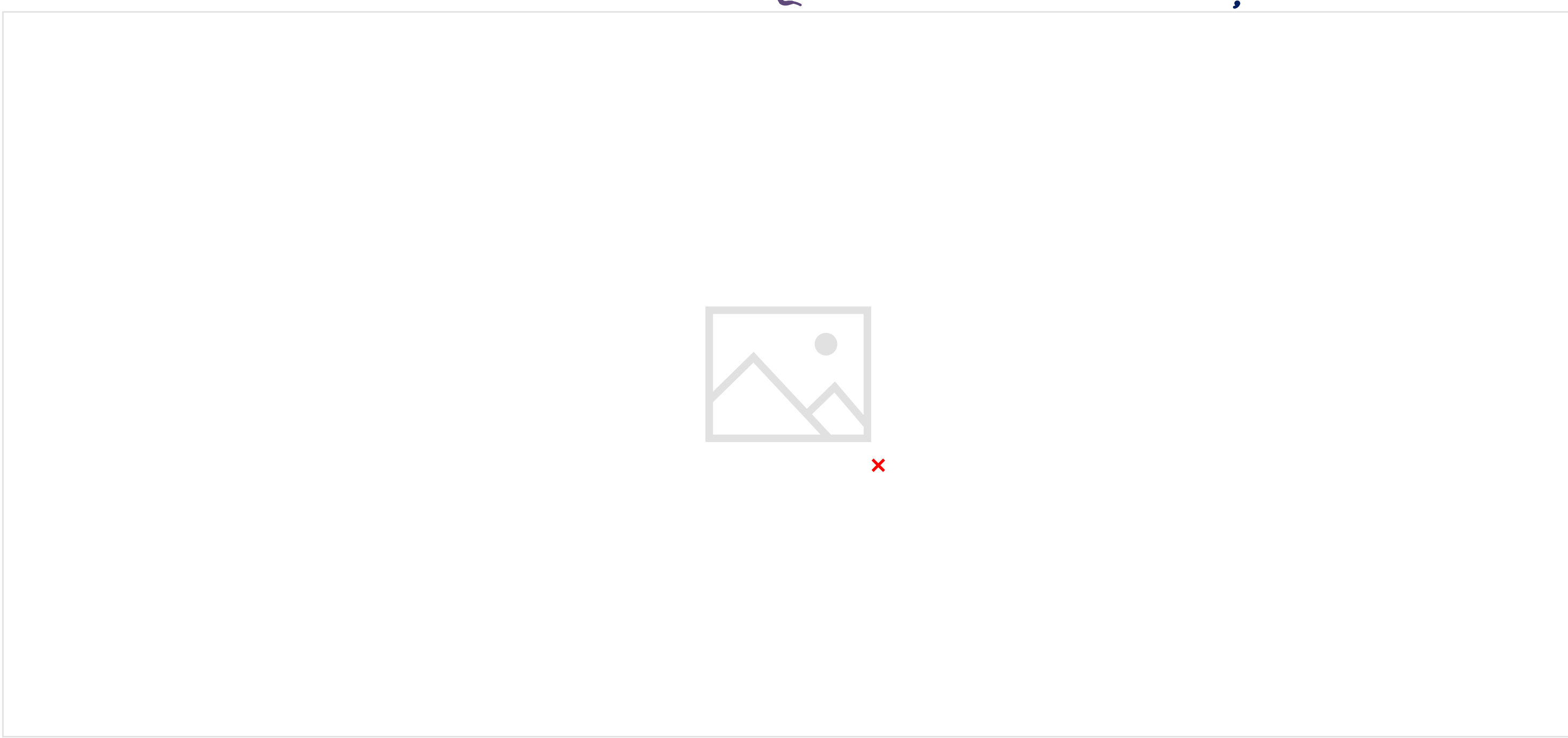
Handwritten notes and diagrams for the Celebrity problem. Includes a stack diagram and a sequence of digits 1, 2, 3, 4, 5, 6, 7, 8, 9. The diagram shows the stack being pushed and popped, and the sequence of digits being used to find the celebrity.

Public static int Celebrity(int[][] arr){

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