String insertion
Quinzè Concurs de Programació de la UPC - Semifinal (2017-06-29)

Implement an efficient data structure to keep a dynamic array $A[0...]$ of strings, with two operations:

- ‘I’ $s_i$: Increase the size of $A$ by one (like $A$.push_back(""));. Move every string at a position $j$ such that $j \geq i$ one position to its right. Store the string $s$ at the $i$-th position, which now is empty.

- ‘C’ $j$: Print the $j$-th character (0 based) of the whole array, considering the concatenation of all its strings from left to right.

Input
Input consists of just one case. Assume that each $s$ has between 1 and 10 lowercase letters, each $i$ is between 0 and the current number of strings, and each $j$ is between 0 and the current number of characters minus one. The total number of operations is at most $3 \cdot 10^5$. An ‘E’ marks the end of the input.

Output
Print a line with the letter at the $j$-th position for each ‘C’ operation.

Sample input
```
I hello 0
C 0
C 4
I bye 0
C 0
C 7
I hi 1
C 4
C 1
C 9
E
```

Sample output
```
hoboIyo
```

Problem information
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