# Problem J Suffix Sorting

**Problem ID:** suffixsorting **CPU Time limit:** 1 second **Memory limit:** 1024 MB

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# Input

The input consists of less than 10 test cases. Each test case begins with a line containing a non-empty string s, of length at most  $100\,000$ . Then follows a line containing an integer n followed by n integers  $q_1, \ldots, q_n$ , where  $0 \le q_i < \operatorname{length}(s)$ , each indicating a query.

#### Output

For each test case, output a line containing n integers  $p_1, \ldots, p_n$ , where  $p_i$  is the starting position of the  $q_i$  'th smallest suffix of s.

### Sample Input 1

#### popup 5 0 1 2 3 4 Popup 5 0 1 2 3 4 Suffixes are jolly fun, eh old chap? 7 35 3 18 33 26 6 2

## Sample Output 1

1 4 0 2 3 0 1 4 2 3 17 18 19 20 21 22 23