**Change Order**

A group of friends are playing a game in which they all sit in a circle and rotate to the right by a certain amount. One person then tries guessing the location of friends by asking questions. He always seems to guess wrong though! Do you think you can write a program that can tell who is at the given indices?

**Input:** The first line of input contains **N**, the number of elements in the list, **K**, the rotation count, and **Q**, the number of queries. The next line contains **N** space-separated integers which are the number of the list. The next **Q** lines contain one integer which asks for a given index after the rotation has occurred.

**Output:** For each query, you will output “Query #(number): “, followed by the integer at the given index after the friend group has been rotated.

**Example Input:**

3 2 3

1 2 3

0

1

2

**Example Output:**

Query #1: 2

Query #2: 3

Query #3: 1

**Explanation:** To begin with, the list appears as such: [1, 2, 3]. After rotating the list by 2, you get the new list [2, 3, 1]. You then output the values at the given indices.