

Memorize or Lose

Jojo, Bibi, and Lili like to play. Now they are playing 'memorize or lose'. The game is very easy, given N number and Q question. For each question, they must mention what number is in the P-th location. Unfortunately, Bibi can't memorize correctly. Help Bibi to answer what number is in the P-th location.

Format Input

The first line contains of integer T the number of test case.
For the next T lines contains integer N and Q.
The next line contains N integer A_i , the number they must memorize
The next Q lines contains an integer P.

Format Output

For each test case, print "Case #X: " and Q lines contains a single integer, the number in the P-th Location
X is the number of test case.
Print a blank line after each test case.

Constraints

$1 \leq T \leq 1000$
 $1 \leq N \leq 1000$
 $1 \leq Q \leq 1000$
 $0 \leq A_i \leq 6000$
 $0 \leq P < N$

Sample Input	Sample Output
3 5 5 1 2 3 4 5 4 3 2 1 0 4 5 9 8 7 6 0 3 2 1 0 3 1 100 300 500 1	Case #1: 5 4 3 2 1 Case #2: 9 6 7 8 9 Case #3: 300