ılls

new game called Dropping Balls. Initially, Ansh has a grid a of size n×mEach cell (x,y) contains an integer a(x,y) denoting the direction of how the ball will mo

— the ball will move to the right (the next cell is (x,y+1));
— the ball will move to the bottom (the next cell is (x+1,y));
— the ball will move to the left (the next cell is (x,y−1)).

a ball leaves a cell (x,y), the integer a(x,y) will change to 2. Ansh will drop k balls sequentially, each starting from the first row, and on the c1,c2,…,ck-th (1≤ci≤

in which column each ball will end up in (**position of the ball after leaving the grid**).

ıat

e contains the number of testcases, T

stcase:

line contains the number of rows and columns, n and m and the number k

t n line contains the values of a(x,y)

line contains k integers, the columns at which the ith ball is dropped

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stcase output k integers — the i-th integer denoting the column where the i-th ball will end.

ıt 1

Sample Output 1

```
2 2 1
```

Script Reset to default code definition Theme: Tern

```
unction solve(){
 console.log()




runProgram=(input) =>{
nput=input.trim().split("\n")
/ let

olve()


process.env.USER === "") {
nProgram(``);
se {
ocess.stdin.resume();
ocess.stdin.setEncoding("ascii");
t read = "";
ocess.stdin.on("data", function (input) {
read += input;
;
ocess.stdin.on("end", function () {
read = read.replace(/\n$/, "");
read = read.replace(/\n$/, "");
runProgram(read);
;
ocess.on("SIGINT", function () {
read = read.replace(/\n$/, "");
runProgram(read);
process.exit(0);
;
```