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Fun with Rotation

Problem code: ROTATION

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Read problems statements in [Mandarin Chinese](#) and [Russian](#).

You are given an array **A** of **N** integers. You are to fulfill **M** queries. Each query has one of the following three types:

- **C d** : Rotate the array **A** clockwise by **d** units.
- **A d** : Rotate the array **A** anticlockwise by **d** units.
- **R d** : Query for the value of the element, currently being the **d**-th in the array **A**.

Input

The first line contains two numbers - **N** and **M** respectively.

The next line contains **N** space separated Integers, denoting the array **A**.

Each of the following **M** lines contains a query in the one of the forms described above.

Output

For each query of type **R** output the answer on a separate line.

Constraints

- $1 \leq N \leq 100000$
- $1 \leq M \leq 100000$
- $1 \leq d \leq N$, in all the queries
- $1 \leq \text{elements of } A \leq 1000000$
- The array **A** and the queries of the type **R** are **1-based**.

Example

Input:

```
5 5
5 4 3 3 9
R 1
C 4
R 5
A 3
R 2
```

Output:

```
5
3
3
```

Explanation

The initial array : 5 4 3 3 9

The answer for **R 1** : 5

The array after **C 4** : 9 5 4 3 3

The answer for **R 5** : 3

The array after **A 3** : 4 3 3 9 5

The answer for **R 2** : 3

SUCCESSFUL SUBMISSIONS

User	Time	Mem	Lang	Solution
manu4rhyme	0.00	2.3M	C	View
rohansuri	0.00	2.3M	C	View
raja44ever	0.00	2.5M	C	View
ece_coder	0.00	2.5M	C	View
kunal361	0.00	2.5M	C	View
zkhan1093	0.00	2.5M	C	View
arpitgupta042	0.00	2.6M	C	View
mtbar131	0.00	2.6M	C	View
rodomonte	0.00	2.6M	C	View
torpedo_101	0.00	2.6M	C	View
garry27	0.00	2.9M	C++ 4.3.2	View
gauravdubey	0.00	2.9M	C++ 4.3.2	View

1 of 227

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Author: devuy11

Tester: xcwgf666

Tags: devuy11

Date Added: 21-07-2014

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.8.1, CPP11, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAR, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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Comments

tihcar @ 5 Sep 2014 08:31 PM

@admin is 2nd rotation applied on the modified array or on the original array.

dpmittal @ 5 Sep 2014 11:16 PM

the commands will be give in upper case letters only

gudujain @ 5 Sep 2014 11:25 PM

space between "C d" , "A d" ,"R d" is present or not ????

devuy11 @ 6 Sep 2014 12:37 AM

@gudujain: It is present

devuy11 @ 6 Sep 2014 12:38 AM

@dpmittal: Yes

devuy11 @ 6 Sep 2014 12:39 AM

@tihcar: Rotation is applied on modified array

Need help? Post a comment. But before that please spare a moment to read the [guidelines](#).

Your name:
animax001

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Directi
Intelligent People. Uncountable Ideas.

The time now is: 01:11:52 AM
Your Ip: 128.205.84.145

[CodeChef](#) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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As part of our Educational initiative, we give institutes the opportunity to associate with CodeChef in the form of Campus Chapters. Hosting **online programming competitions** is not the only feature on CodeChef. You can also host a **coding contest** for your institute on CodeChef, organize an **algorithm** event and be a guest author on our blog.

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The Go for Gold Initiative was launched about a year after CodeChef was inceptioned, to help prepare Indian students for the **ACM ICPC** World Finals competition. In the run up to the **ACM ICPC** competition, the Go for Gold initiative uses CodeChef as a platform to train students for the **ACM ICPC** competition via multiple warm up contests. As an added incentive the Go for Gold initiative is also offering over Rs.8 lacs to the Indian team that beats the 29th position at the **ACM ICPC** world finals. Find out more about the Go for Gold and the **ACM ICPC** competition [here](#).