

SPOJ Problem Set (classical)

376. A concrete simulation

Problem code: ACS

You are given a matrix M of type 1234×5678 . It is initially filled with integers $1 \dots 1234 \times 5678$ in row major order. Your task is to process a list of commands manipulating M . There are 4 types of commands:

"R x y" swap the x-th and y-th row of M ;
"C x y" swap the x-th and y-th column of M ;
"Q x y" write out $M(x,y)$;
"W z" write out x and y where $z=M(x,y)$.

Input

A list of valid commands. Input terminated by EOF.

Output

For each "Q x y" write out one line with the current value of $M(x,y)$, for each "W z" write out one line with the value of x and y (interpreted as above) separated by a space.

Input :

```
R 1 2
Q 1 1
Q 2 1
W 1
W 5679
C 1 2
Q 1 1
Q 2 1
W 1
W 5679
```

Output :

```
5679
1
2 1
1 1
5680
2
2 2
1 2
```

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Languages: All
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