

# Q1.

## Input Format

The input begin with an integer n on a line, which means that there are n test cases.  
And the first character of each following row is the command.

- + : add two matrices.
- \* : Multiply two matrices.
- p : print the matrix.
- d : print the determinant of the matrix.

The size of each matrix is 2x2.

Each matrix contains four integers.

Ex. [ a b  
c d ]

which a , b, c ,d are four integers.

## Constraints

Use **class** and **switch** to implement.

## Output Format

You must output the result after doing the calculation.

If the matrix is [ 3 6  
-1 2 ] ,  
then you have to print [3,6,-1,2].

## Sample Input

```
7
p 0 0 0 0
p 0 1 2 3
p 5 6 7 8
+ 0 -5 6 -9 8 7 -1 -1
* 1 8 9 -1 5 1 -1 0
d 4 5 6 7
d 9 8 7 6
```

## Sample Output

```
[0 , 0 , 0 , 0]
[0 , 1 , 2 , 3]
[5 , 6 , 7 , 8]
[8 , 2 , 5 , -10]
[-3 , 1 , 46 , 9]
-2
-2
```