

8209 Little Boxes

Little boxes on the hillside.
Little boxes made of ticky-tacky.
Little boxes.
Little boxes.
Little boxes all the same.
There are a green boxes, and b pink boxes.
And c blue boxes and d yellow boxes.
And they are all made out of ticky-tacky.
And they all look just the same.

Input

The input has several test cases. The first line contains the integer t ($1 \leq t \leq 10$) which is the total number of test cases.

For each test case, a line contains four non-negative integers a , b , c and d where $a, b, c, d \leq 2^{62}$, indicating the numbers of green boxes, pink boxes, blue boxes and yellow boxes.

Output

For each test case, output a line with the total number of boxes.

Sample Input

```
4
1 2 3 4
0 0 0 0
1 0 0 0
111 222 333 404
```

Sample Output

```
10
0
1
1070
```