

## 5-8 years experience Challenge

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## Questions

## 1. Abacus ()

Note:

- You can do multiple submissions.
- Your highest score will be considered

## Abacus

This is a problem that deals with the use of abacii. If you are not familiar with the way abacii work, please take a look at [this link] (<http://www.wikihow.com/Use-an-Abacus> (<http://www.wikihow.com/Use-an-Abacus>)).

To summarize, the abacus we are dealing with in this problem consists of two sets of beads separated by a barrier.

The first set of beads (the top), is called heaven beads while the bottom set is known as earth beads. The heaven beads are worth 5 times the earth beads.

Also, note that in this problem, we are not dealing with decimals. So, the 9th column (1st column from the right) represents the ones position, 8th the tens and so on.

Also, in the version of the abacus we are using, there is only one row of heaven beads, and 4 rows of earth beads.

The task in this problem is quite easy: given the position of beads in the abacus, calculate the integer value represented.

## Input Format

The first line of input consists of an integer  $t$ . This is the number of test cases. Each test case consists of 2 lines of input. The first line of input contains 9 space separated integers which are either 0 or 1, second line contains 9 space separated integers which are either 0, 1, 2, 3 or 4.

## Example

For example, suppose the two lines of input in a test case are:

```
1 0 1 1 0 0 1 0 1
2 1 1 2 0 0 1 0 3
```

This means that the beads in the heaven row in columns 1, 3, 4, 7 and 9 are in the “down” position while two beads in the earth row in the first column are in the up position, 1 bead in the 2nd column in the earth row in the up position and so on.



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The output will be an integer value of the given orientation of beads.

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For the example case above, because the beads in the heaven row are worth 5 times the ones in the earth row, the integer displayed is  $505500505 + 211200103 = 716700608$

**Constraints**

$0 < t < 1000$  (This is the number of test cases)

$0 < l < 100000000000$  (size of the output integer)

Sample input :


```
2
1 0 1 1 0 0 1 0 1
2 1 1 2 0 0 1 0 3
0 1 0 1 1 0 1 0 1
2 2 1 4 0 3 1 3 4
```

Sample Output :


```
716700608
271953639
```

**Task**

Given a position of beads in an abacus, output the integer it represents.

SAMPLE  (https://skillenza-  
STDIN 1 uploads.s3.amazonaws.com/files/278fe5ba-

```
221 0871-42bf-9e6c-5e1a8b0b3964/in.txt)
0 0 1 0 1 1 1 1 0
2 1 0 4 3 1 3 2 2
0 1 1 0 1 0 0 0 0
4 0 2 1 0 2 1 1 3
1 0 1 1 0 0 1 1 1
0 2 2 2 1 4 2 0 4
0 0 0 0 1 1 1 0 0
```

SAMPLE  (https://skillenza-  
STDOUT uploads.s3.amazonaws.com/files/3512aa3c-

```
215486872 4706-43d5-ab01-f4ecbb0a7d3e/out.txt)
457152113
527714759
433269732
41958303
297154769
332371444
306938032
```

STAGE

Help

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