

## Problem B. Welcome To Fast!

**Time limit** 1000 ms

**Mem limit** 262144 kB

The average life of a **FAST**ian is always on the run! With the mid-2 exams just completed, time flies so quickly that it's already the day before the Final Examinations. As a procrastinator who studies the night before, you find yourself calculating the limited amount of time left until the exams start.

You know that currently, the clock shows  $h$  hours and  $m$  minutes, where  $0 \leq h < 24$  and  $0 \leq m < 60$ . We use the 24-hour time format!

Your task is to determine how many minutes remain before the exams begin at  $0$  hours and  $0$  minutes.

You need to answer  $t$  independent test cases.

### Input

The first line of the input contains one integer  $t$  ( $1 \leq t \leq 1439$ ) — the number of test cases.

Each of the following  $t$  lines describes a specific time case. The  $i$ -th line contains the current time given as two integers  $h$  and  $m$  ( $0 \leq h < 24$ ,  $0 \leq m < 60$ ). It is guaranteed that this time is **not** midnight, meaning that the following two conditions cannot occur simultaneously:  $h = 0$  and  $m = 0$ . Additionally, both  $h$  and  $m$  are given without any leading zeros.

### Output

For each test case, print the answer on it — the number of minutes before the disaster.

### Examples

Input	Output
5 23 55 23 0 0 1 4 20 23 59	5 60 1439 1180 1