**12 hour clock Multiplication**

[modular arithmetic](http://www.practice.geeksforgeeks.org/tag-page.php?tag=modular%20arithmetic&isCmp=0)

Given two positive integers num1 and num2, the task is to find the product of the two numbers on a ***12 hour clock***rather than a number line.

**Input**  
First line of the input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case consists of a single line containing two integers separated by a space .

**Output**  
Corresponding to each test case, print the difference in a new line.

**Constraints:**  
1<=T<=100  
1<=num1<=1000  
1<=num2<=1000  
   
**Example:**

**input:-**  
1  
2 3  
3 5

**output:-**  
6  
3

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=981>

#include <iostream>

#include <stdio.h>

#include <vector>

#include <algorithm>

using namespace std;

int main() {

int t;

scanf("%d", &t);

while(t--) {

int a,b;

scanf("%d %d", &a, &b);

int prod = a \* b;

printf("%d\n", prod % 12);

}

//system("pause");

return 0;

}