**12 hour clock subtraction**

[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 difference 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  
0<=num1<=1000  
0<=num2<=1000  
   
**Example:**

**Input**  
1  
7 5

**Output**  
2

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

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=979>

#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 dif = std::abs(a-b);

printf("%d\n", dif);

}

//system("pause");

return 0;

}