## Problem E: Outwitting the Weighing Machine

Some school children discovered that by getting on a weighing machine in couples, and then exchanging places-one at a time-they could get the correct weight of a whole party on the payment of but one cent. They found that in couples they weighed (in pounds): $129,125,124,123,122,121,120,118,116$ and 114. What was the weight of each one of the five little girls if taken separately?
It proves that they must have been clever scholars or they never would have been able to work out the correct answer to such
 an interesting puzzle question, which is liable to confuse older heads than theirs.

Given a list of 10 integers, representing the weighs of each couple formed from a group of 5 people, determine the weights of each person.

## Input

Input starts with a positive integer T , that denotes the number of test cases.
Each test case is described by 10 integers $W_{1}, W_{2}, \ldots, W_{10}$ in a single line.

$$
T \leqslant 3000 ; 100 \leqslant W_{1} \leqslant W_{2} \leqslant \ldots \leqslant W_{10} \leqslant 400
$$

## Output

For each test case, print the case number, followed by the 5 weights asked, separated by spaces. Print these numbers in ascending order.


