

The 27th Annual
ACM International Collegiate
Programming Contest
ASIA Regional - Taejon



Practice Problem A

Divisor
Input: div.in

Given a set S of positive integers, write a program that finds the largest integer l such that $l = x / y$ where $x, y \in S$, and they are not necessarily different.

For example, suppose that $S = \{2, 4, 7\}$. Then, we can compute that l is 2 ($= 4 / 2$). Note that 3.5 ($= 7 / 2$) can't be the solution since it is not an integer.

Input

The input consists of T test cases. The number of test cases (T) is given in the first line of the input file. Each test case consists of two lines. The first line has an integer n , $1 \leq n \leq 100$, that represents the cardinality of a set S . The second line contains n elements e_1, e_2, \dots, e_n ($1 \leq e_i \leq 1000$) of a set S .

Output

Print exactly one line for each test case. The line should contain one integer which is the largest integer l such that $l = x / y$ where $x, y \in S$.

Sample Input
div.in

Output for the Sample Input

3	2
3	5
2 4 7	1
4	
1 2 3 5	
5	
2 3 5 7 11	