# **Guess The Maximum**

A cat and a rabbit are playing a simple number guessing game. The cat chose two different positive integers X and Y. He then told the rabbit several numbers. One of those numbers was X + Y and another was X - Y. The others were simply made up.

The rabbit thinks the cat prefers large numbers. Given n numbers the cat told the rabbit, print the largest possible value of X \* Y

## Input

Input starts with an integer T ( $\leq$  200), denoting the number of test cases.

Each case starts with a line containing one integer N ( $2 \le N \le 50$ ). Next line contains N integers. Each integer will be between 1 and 1000.

## **Output**

For each case, print a line containing the largest possible value of X \* Y.

# **Example**

#### Input:

2

3

1 4 5

4

1458

### **Output:**

6

12

**Explanation of the second case:** Possible pairs (X, Y) are (3, 2) and (6, 2). The values of X \* Y are 6 and 12, respectively, and the largest is 12.