



#### JUNCE ONLINE FOR ACIDACPC

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Sequence

Memory Limit: 65536K

Total Submissions: 9776 Accepted: 3252

## **Description**

Given m sequences, each contains n non-negative integer. Now we may select one number from each sequence to form a sequence with m integers. It's clear that we may get n ^ m this kind of sequences. Then we can calculate the sum of numbers in each sequence, and get n ^ m values. What we need is the smallest n sums. Could you help us?

#### Input

The first line is an integer T, which shows the number of test cases, and then T test cases follow. The first line of each case contains two integers m, n ( $0 \le m \le 100$ ,  $0 \le n \le 100$ ,  $0 \le m \le 100$ ,  $0 \le 100$ ,  $0 \le m \le 100$ , 02000). The following m lines indicate the m sequence respectively. No integer in the sequence is greater than 10000.

#### **Output**

For each test case, print a line with the smallest n sums in increasing order, which is separated by a space.

### **Sample Input**

2 3

1 2 3

2 2 3

# **Sample Output**

3 3 4

#### Source

POJ Monthly, Guang Lin

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