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Watan And Dominoes

Problem code: WATSY

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All submissions for this problem are available.

Watan likes the game of Dominoes where a series of rectangular wooden pieces are placed on a line, hitting the right piece makes the rest of the pieces fall. In original version of the game, all the pieces are identical. But unfortunately the pieces that Watan has, have different heights. So, whether the pieces will fall or not becomes more difficult to predict. Watan is good at mathematics. He devised his own formula to predict the outcome. In his formula, he requires to find for each pieces, how many pieces appearing before it are smaller than it. This part is tedious and he doesn't want to spend a lot of time on it. So he comes to you to write a program to find this for him.

Input

The first line of the input contains a single integer T denoting the number of test cases. Each test case T has two lines. First line contains a single integer N denoting number of pieces present. Next line contains N space separated integers A_i denoting height of each piece.

Output

For each test case, output N space separated integers B_i where B_i is the number of elements A_j ($1 \leq j \leq i-1$) which are less than A_i .

Constraints

- $1 \leq T \leq 1000$
- $1 \leq A_i \leq 10^6$
- $1 \leq N \leq 10^6$

Sample Cases

Input

```
1
5
1 2 3 4 5
```

Output

```
0 1 2 3 4
```

Author: [bigo_admin](#)

Tags: [bigo_admin](#)

Date Added: 11-04-2016

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: C, CPP 4.3.2, CPP 4.9.2, CPP14, JAVA

SUBMIT

SUCCESSFUL SUBMISSIONS

User	Time	Mem	Lang	Solution
saumye	0.12	10.7M	C++ 4.9.2	View
pvkcse	0.12	10.7M	C++ 4.9.2	View
k21paliwal	0.12	41.9M	C++ 4.9.2	View
often_rejected	0.13	6.8M	C++ 4.9.2	View
anooakv	0.13	6.9M	C++14	View
deep9539	0.13	10.7M	C++ 4.9.2	View
code_hard123	0.13	17.9M	C++ 4.3.2	View
prince0322	0.14	15M	C++14	View
ajaygoyal42	0.29	1340.5M	JAVA	View
arunmittal53	0.32	22.1M	C++ 4.9.2	View
ps06756	0.33	3.1M	C++14	View
abhijain	0.36	18.3M	C++ 4.9.2	View

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