2016/4/5 Problem - 5361



-壹晨仟阳(杭州),巴卡斯(杭州),英雄互娱(杭; (包括2016级新生)除了校赛,还有什么途径可以申请加入ACM

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Time Limit: 8000/4000 MS (Java/Others) Memory Limit: 131072/131072 K (Java/Others) Total Submission(s): 1825 Accepted Submission(s): 493

Problem Description

There are n soda living in a straight line, soda are numbered by 1, 2, ..., n from left to right. The distance between two adjacent soda is 1 meter. Every soda has a teleporter. The teleporter of $\frac{1}{h}$ th soda can teleport to the soda whose distance between $\frac{1}{h}$ th soda is no less than l_i and no larger than r_i . The cost to use $\frac{1}{h}$ th soda's teleporter is cil.

The 11-st soda is their leader and he wants to know the minimum cost needed to reach i1-th soda $(1 \le i \le n)$.

Input

There are multiple test cases. The first line of input contains an integer Th indicating the number of test cases. For each test case:

The first line contains an integer $n(1 \le n \le 2 \times 10^5)$, the number of soda. The second line contains mintegers l_1, l_2, \dots, l_n . The third line contains mintegers r_1, r_2, \dots, r_n . The fourth line contains mintegers c_1, c_2, \dots, c_n . $(0 \le l_i \le r_i \le n, 1 \le c_i \le 10^9)$

Output

For each case, output mintegers where it integer denotes the minimum cost needed to reach it hoda. If 11st soda cannot reach it hoda, you should just output -1.

Sample Input

Sample Output

0 2 1 1 -1

Hint

If you need a larger stack size,

please use #pragma comment(linker, "/STACK:102400000,102400000") and submit your solution using C++.

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Source

2015 Multi-University Training Contest 6

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