

Task

You are handing out newspapers to classrooms in HSN. There is a list of classrooms given to you that you have to visit. These classrooms are conveniently located in a single hallway, which has **100** classrooms numbered **1 .. 100** in order. Since you are lazy, you want to minimize your walking distance. Given that you must start and end at classroom **1**, output the order of classes to visit in order to minimize your walking distance. If there are multiple solutions, output any.

Interaction Details:

There will be **3** test cases.

For each test case, you will be given an array of integers representing the classrooms to visit. You will then be prompted to enter a list of space separated integers representing the order in which the classrooms will be visited.

Sample Interaction:

[59, 68, 24, 83]

order: 59 83 68 24

[27, 29, 43, 50, 78, 21, 70, 89, 93, 85]

order: 27 29 43 50 78 21 70 89 93 85

Distance too large