**The test cases format:**

The first line contains an integer T, i.e., the number of the test cases. T testcases follow. The first line of each test case contains an integer N, i.e., the number of guests. The second line of each test case contains N space separated integers that denote the arrival time of each guest. The third line of each test case contains N space separated integers that denote the duration of stay of each guest.

2

3

1 2 3

3 3 3

5

1 2 3 4 5

2 3 4 5 6