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#include <bits/stdc++.h>
using namespace std;
const int MAXLEN = 110000;
int a[MAXLEN], b[MAXLEN], n;
int GetMid()
{
    int ai, bi;
    ai = bi = 0;
    while(ai + bi != n - 1)
    {
        if(a[ai] > b[bi])
            bi++;
        else
            ai++;
    }
    return a[ai] > b[bi] ? b[bi] : a[ai];
}
int main()
{
    int mid;
    scanf("%d", &n);
    for(int i = 0; i < n; ++i)
        scanf("%d", &a[i]);
    for(int i = 0; i < n; ++i)
        scanf("%d", &b[i]);
    mid = GetMid();
    printf("%d", mid);
}

```