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1:  /*
2:      Name: Tricky Two Array Sum
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4:      Date: 30-09-20 10:26
5:  */
6:
7:  #include <bits/stdc++.h>
8:  using namespace std ;
9:  const int inf = 2e9+17;
10:
11:  int main() {
12:      srand(time(NULL)) ;
13:      ios::sync_with_stdio(0), cin.tie(0), cout.tie(0);
14:
15:      int n;
16:      cin >> n;
17:      vector<int> nums1(n), nums2(n);
18:      for(i, n) { cin >> nums1[i]; }
19:      for(i, n) { cin >> nums2[i]; }
20:
21:      vector<vector<int>>>dp(n, vector<int>(n, inf));
22:      dp[0][0] = nums1[0] + nums2[0];
23:      foo(i, 0, n){
24:          int el = nums1[i];
25:          for (int j = 0; j < n; j++){
26:              if(i == 0) {
27:                  dp[i][j] = min(dp[i][j - 1], el + nums2[j]);
28:              }else{
29:                  dp[i][j] = (j == 0) ? min(dp[i-1][j], el + nums2[j]) :
min({el + nums2[j], dp[i-1][j], dp[i][j - 1]}) ;
30:              }
31:          }
32:          debug() << imie(dp);
33:      }
34:
35:      cout << "minimum costs: " << dp[n-1][n-1];
36:  }

```