

```
1  #include <iostream>
2  using namespace std;
3
4  const int MAX_SIZE = 100;
5
6  int main() {
7      const int n = 2 ;
8      int matrix[n][n];
9      int sum = 0;
10
11
12
13      // Read in the matrix elements
14      cout << "Enter the matrix elements:" << endl;
15      for (int i = 0; i < n; i++) {
16          for (int j = 0; j < n; j++) {
17              cin >> matrix[i][j];
18          }
19      }
20
21      // Compute the sum of diagonal elements
22      for (int i = 0; i < n; i++) {
23          sum += matrix[i][i];
24      }
25
26      // Output the result
27      cout << "The sum of diagonal elements is " << sum << endl;
28
29      return 0;
30 }
31
32
```