```
1 #include <iostream>
 3
    using namespace std;
    const int N = 3;
 4
 6 int countNonZero(int A[N][N]) {
        int count = 0;
 8
        for (int i = 0; i < N; i++) {</pre>
 9
            for (int j = 0; j < N; j++) {
   if (A[i][j] != 0) {</pre>
10
11
12
                     count++;
13
14
15
16
17
        return count;
18 }
19 int multdiagonal (int A[N][N])
20 {
21
         int product = 1 ;
        for (int i = 0; i < N; i++)</pre>
22
23
24
             product *= A[i][i];
25
26
27
         return product ;
28
29
30 int main()
31
32
         int A [N][N] ;
         \verb|cout|| << | "Enter the square matrix elements of size" << N << endl;  
33
34
         for (int i = 0; i < N; i++) {</pre>
             for (int j = 0; j < N; j++) {
35
36
                 cin >> A[i][j];
37
38
39
        cout << "No of non zero values in this matrix equals " << countNonZero(A) << endl ;</pre>
40
41
         cout << "Result of multiplication of diagonal of this matrix equals "<<multdiagonal(A) << endl ;</pre>
42
43
44
45
46
         return 0;
47
48
```