

```
1  #include <stdio.h>
2
3  #define ROWS 3
4  #define COLUMNS 3
5
6  int main(void) {
7      int matrix[ROWS][COLUMNS] = {{1, 2, 3
8      }, {4, 5, 6}, {7, 8, 9}};
9      int i;
10     int sum = 0;
11
12     for (i = 0; i < ROWS; i++) {
13         sum += matrix[i][i];
14     }
15
16     printf("The sum of the main diagonal elements is %d\n",
17     sum);
18
19     return 0;
20 }
```