

```
1  #include <stdio.h>
2
3  int A[1000][1000];
4
5  void main() {
6      int sumUp = 0;
7      int sumDown = 0;
8
9      int R, C;
10     scanf("%d", &R);
11     C = R;
12     for(int row = 0; row < R; ++row) {
13         for(int col = 0; col < C; ++col) {
14             scanf("%d", &A[row][col]);
15         }
16     }
17
18     for(int row = 0; row < R - 1; ++row) {
19         for(int col = row + 1; col < C; ++col) {
20             sumUp += A[row][col];
21         }
22     }
23
24     for(int row = 1; row < R; ++row) {
25         for(int col = 0; col < row; ++col) {
26             sumDown += A[row][col];
27         }
28     }
29
30     printf("%d\n%d", sumUp, sumDown);
31 }
```