

```
16  3  2 13
 5 10 11  8
 9  6  7 12
 4 15 14  1
```

Row sums: 34 34 34 34

Column sums: 34 34 34 34

Diagonal sums: 34 34

If the row, column, and diagonal sums are all the same (as they are in this example), the numbers are said to form a *magic square*. The magic square shown here appears in a 1514 engraving by artist and mathematician Albrecht Dürer. (Note that the middle numbers in the last row give the date of the engraving.)

6. Modify the `addfrac.c` program of Section 3.2 so that the user enters both fractions at the same time, separated by a plus sign:

Enter two fractions separated by a plus sign: 5/6+3/4

The sum is 38/24