

```

1  /* File Name: add3by3.c
2  *
3  * This reads in two 3 by 3 matrices from the user and finds their sum.
4  * The output is a HTML page.
5  *
6  * Author: Mr. Dagler
7  */
8
9  #include <stdio.h>
10
11  int main() {
12      int a11, a12, a13, a21, a22, a23, a31, a32, a33; /* The first matrix */
13      int b11, b12, b13, b21, b22, b23, b31, b32, b33; /* The second matrix */
14      int c11, c12, c13, c21, c22, c23, c31, c32, c33; /* The matrix sum*/
15
16      /* Reading in user input */
17      printf("The first matrix.\n");
18      printf(" Enter its first row: ");
19      scanf("%d%d%d", &a11, &a12, &a13);
20      printf(" Enter its second row: ");
21      scanf("%d%d%d", &a21, &a22, &a23);
22      printf(" Enter its thrird row: ");
23      scanf("%d%d%d", &a31, &a32, &a33);
24
25      printf("The second matrix.\n");
26      printf(" Enter its first row: ");
27      scanf("%d%d%d", &b11, &b12, &b13);
28      printf(" Enter its second row: ");
29      scanf("%d%d%d", &b21, &b22, &b23);
30      printf(" Enter its thrird row: ");
31      scanf("%d%d%d", &b31, &b32, &b33);
32
33      /* Finding the Sum of the two matrices */
34      c11=a11+b11;
35      c12=a12+b12;
36      c13=a13+b13;
37      c21=a21+b21;
38      c22=a22+b22;
39      c23=a23+b23;
40      c31=a31+b31;
41      c32=a32+b32;
42      c33=a33+b33;
43
44      /* Outputting the results */
45      printf("\n\n");
46      printf("<!DOCTYPE>\n");
47      printf("<html>\n");
48      printf("    <head>\n");
49      printf("        <title>The Sum of two 3 by 3 matrices.</title>\n");
50      printf("        <style>\n");
51      printf("            table {\n");
52      printf("                border-collapse: collapse;\n");
53      printf("            }\n");
54      printf("            td, th {\n");
55      printf("                border: 1px solid black;\n");
56      printf("                padding: 5px;\n");
57      printf("                text-align: center;\n");

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58     printf("        }\n");
59     printf("    </style>\n");
60     printf(" </head>\n");
61     printf(" <body>\n");
62     printf(" <center>\n");
63
64     printf("    <table>\n");
65     printf("        <tr>\n");
66     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", a11, a12, a13);
67     printf("        </tr>\n");
68     printf("        <tr>\n");
69     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", a21, a22, a23);
70     printf("        </tr>\n");
71     printf("        <tr>\n");
72     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", a31, a32, a33);
73     printf("        </tr>\n");
74     printf("    </table>\n");
75     printf("    + \n");
76     printf("    <table>\n");
77     printf("        <tr>\n");
78     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", b11, b12, b13);
79     printf("        </tr>\n");
80     printf("        <tr>\n");
81     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", b21, b22, b23);
82     printf("        </tr>\n");
83     printf("        <tr>\n");
84     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", b31, b32, b33);
85     printf("        </tr>\n");
86     printf("    </table>\n");
87     printf("    = \n");
88     printf("    <table>\n");
89     printf("        <tr>\n");
90     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", c11, c12, c13);
91     printf("        </tr>\n");
92     printf("        <tr>\n");
93     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", c21, c22, c23);
94     printf("        </tr>\n");
95     printf("        <tr>\n");
96     printf("            <td>%d</td> <td>%d</td> <td>%d</td>\n", c31, c32, c33);
97     printf("        </tr>\n");
98     printf("    </table>\n");
99     printf(" </center>\n");
100    printf(" </body>\n");
101    printf("</html>\n");
102
103    return 0;
104 }
105

```