```
// initialize table with random two-digit numbers
const int ROWS = 5;
const int COLS = 7;
                                                     51
                                                          27
                                                               44
                                                                    50
                                                                          99
                                                                               74
                                                                                    58
const int WIDTH = 4;
                                                     28
                                                               84
                                                                    45
                                                                          75
                                                                               71
                                                                                    97
                                                          62
                                                     71
                                                          51
                                                               35
                                                                    72
                                                                          67
                                                                               46
                                                                                    91
Table<int> t(ROWS, COLS);
                                                     34
                                                          42
                                                               73
                                                                    32
                                                                          62
                                                                               61
                                                                                    96
randomize(t, 10, 99);
                                                     18
                                                          15
                                                               57
                                                                    46
                                                                          21
                                                                               28
                                                                                    79
cout << setw(WIDTH) << t << endl; ---</pre>
// replace odd numbers in table with zero
for (int i = 0; i < ROWS; i++) {
                                                      0
                                                                44
                                                            0
                                                                     50
                                                                           0
                                                                               74
                                                                                    58
    for (int j = 0; j < COLS; j++) {
                                                     28
                                                           62
                                                                84
                                                                     0
                                                                           0
                                                                                0
                                                                                     0
         if (t(i, j) \% 2 == 1) {
                                                      0
                                                           0
                                                                 0
                                                                     72
                                                                           0
                                                                               46
                                                                                     0
             t(i, j) = 0;
                                                     34
                                                           42
                                                                 0
                                                                     32
                                                                          62
                                                                                0
                                                                                    96
                                                     18
                                                                 0
                                                            0
                                                                     46
                                                                           0
                                                                               28
                                                                                     0
    }
}
cout << setw(WIDTH) << t << endl; ---</pre>
// append 3 columns fill with -1
                                                          44
                                                               50
                                                                          74
                                                                               58
                                                      0
                                                                     0
                                                                                    -1
                                                                                         -1
                                                                                              -1
Table<int> t2(ROWS, 3);
                                                28
                                                                0
                                                                                0
                                                     62
                                                          84
                                                                     0
                                                                           0
                                                                                    -1
                                                                                         -1
                                                                                               -1
fill(t2, -1);
                                                 0
                                                      0
                                                           0
                                                               72
                                                                     0
                                                                          46
                                                                                0
                                                                                    -1
                                                                                         -1
                                                                                              -1
t = t.append cols(t2);
                                                34
                                                     42
                                                               32
                                                                    62
                                                                           0
                                                                               96
                                                                                    -1
                                                                                         -1
                                                                                              -1
                                                18
                                                               46
                                                                     0
                                                                          28
                                                                                    -1
                                                                                         -1
                                                                                              -1
cout << setw(WIDTH) << t << endl; ---</pre>
// append 2 rows filled with -2
                                                 0
                                                      0
                                                           44
                                                                50
                                                                      0
                                                                          74
                                                                               58
                                                                                    -1
                                                                                          -1
                                                                                               -1
Table<int> t3(2, t.get_cols());
                                                28
                                                     62
                                                          84
                                                                0
                                                                           0
                                                                      0
                                                                                0
                                                                                    -1
                                                                                          -1
                                                                                               -1
fill(t3, -2);
                                                 0
                                                      0
                                                           0
                                                               72
                                                                      0
                                                                          46
                                                                                0
                                                                                    -1
                                                                                          -1
                                                                                               -1
t = t.append rows(t3);
                                                34
                                                     42
                                                           0
                                                                32
                                                                     62
                                                                           0
                                                                               96
                                                                                    -1
                                                                                          -1
                                                                                               -1
cout << setw(WIDTH) << t << endl; ---</pre>
                                                                                    -1
                                                18
                                                      0
                                                           0
                                                               46
                                                                      0
                                                                          28
                                                                                0
                                                                                          -1
                                                                                               -1
                                                -2
                                                     -2
                                                                          -2
                                                                                          -2
                                                           -2
                                                               -2
                                                                     -2
                                                                               -2
                                                                                    -2
                                                                                               -2
// extract a subtable
                                                -2
                                                     -2
                                                               -2
                                                                     -2
                                                                               -2
                                                                                    -2
                                                                                          -2
                                                                                               -2
t = t(3, 5, 5, 7);
cout << setw(WIDTH) << t << endl; -----</pre>
// square the entries in the table
                                                                        96
                                                                             -1
cout << setw(WIDTH) << t + square << endl;</pre>
                                                                   28
                                                                         0
                                                                             -1
                                                                   -2
                                                                        -2
                                                                             -2
return 0;
                                                                     0 9216
                                                                                1
                                                                   784
                                                                                1
                                                                          0
                                                                     4
                                                                          4
                                                                                4
```