

```
Script started on 2023-07-13 22:11:28-05:00 [TERM="xterm" TTY="/dev/pts/1" COLUMNS=
bj94684@ares:~$ pwd
/home/students/bj94684
bj94684@ares:~$ cat cw.info
/*****
```

```
*
* NAME:   Jose Barron                CLASS:  CSC122-002      *
*
* Lab: Where, oh where,              *
* has my little SHEEP gone?!         Level:   6             *
* Option:                             Level:  + 0           *
*                                     Total Level:  6.0        *
*
* This program is designed to generate a crossword from a list of words. *
* The list of words are from a user file. The crossword is first         *
* genrated empty, and the size of the grid is dependent on the largest   *
* word found in the list. Then through the use of the custom crossword.h  *
* library the crossword is filled in with the words given by the user.   *
* The crossword is generated by placing the first word in the crossword   *
* in some random position and orientation, then the words are added      *
* one by one in random positions and orientations, and if all the words   *
* are in the crossword then it displays the crossword, but if not then    *
* the code loops until all the words are in the crossword.                *
*****/
bj94684@ares:~$ show-code crossword.h
```

crossword.h:

```
1  #ifndef CROSSWORD_H_INC
2  #define CROSSWORD_H_INC
3
4  #include<iostream>
5  #include<string>
6  #include<vector>
7  #include<ctime>
8  #include<cctype>
9  #include <cstdlib>
10
11 inline short rand_num(short min, short max)
12 {
13     return static_cast<short>( rand()%(max-min+1) + min );
14 }
15
16
17 inline void display(std::vector<std::vector<char>> cw)
18 {
19     for (std::vector<std::vector<char>>>::size_type row = 0;
20          row != cw.size(); ++row)
21     {
22         for (std::vector<char>::size_type col = 0;
23              col != cw[row].size(); ++col)
24         {
```

```
25         std::cout << cw[row][col] << ' ';
26     }
27     std::cout << '\n';
28 }
29 }
30
31 inline std::vector<std::vector<char>> generate_cw(std::vector<std::vector<char>> cw)
32 {
33     std::vector<std::vector<char>> cw1 = cw;
34     cw1.resize(r);
35     for (std::vector<std::vector<char>>>::size_type row = 0;
36          row != cw1.size(); ++row)
37     {
38         cw1[row].resize(col);
39     }
40     return cw1;
41 }
42
43 inline std::string reverse_word(std::string s)
44 {
45     std::string reversedWord;
46     std::string::size_type i = s.length() - 1;
47     while( static_cast<short>(i) >= 0 )
48     {
49         reversedWord += s[i];
50         i = i - 1;
51     }
52     return reversedWord;
53 }
54 inline std::vector<std::vector<char>> fill_cw(std::vector<std::vector<char>> cw)
55 {
56     std::vector<std::vector<char>> cw1 = cw;
57     for (auto & r : cw1)
58     {
59         for (auto & c : r)
60         {
61             c = t;
62         }
63     }
64     return cw1;
65 }
66
67 std::vector<std::vector<char>> fill_cw_w_l(std::vector<std::vector<char>> cw,
68                                           char t);
69 std::vector<std::vector<char>> gen_cw_ans(std::vector<std::vector<char>> cw,
70                                           char t);
71
72
73 bool vertical (std::vector<std::vector<char>> cw, short row, short column,
74               std::string word);
75 bool horizontal (std::vector<std::vector<char>> cw, short row, short column,
76                  std::string word);
77 bool diagonal (std::vector<std::vector<char>> cw, short row, short column,
78                std::string word);
```

```

79
80 bool fit_vertical(std::vector<std::vector<char>> cw, short row,
81                 std::string word);
82 bool fit_horizontal(std::vector<std::vector<char>> cw, short column,
83                   std::string word);
84 bool fit_diagonal(std::vector<std::vector<char>> cw,
85                  short row, short column, std::string word);
86
87 bool vertical_match(std::vector<std::vector<char>> cw, short row, short col,
88                   std::string word);
89 bool horizontal_match(std::vector<std::vector<char>> cw, short row, short col,
90                     std::string word);
91 bool diagonal_match(std::vector<std::vector<char>> cw, short row, short col,
92                   std::string word);
93
94 std::vector<std::vector<char>> make_vertical( std::vector<std::vector<char>> cw,
95                                             short row, short column,
96                                             std::string word);
97 std::vector<std::vector<char>> make_horizontal( std::vector<std::vector<char>> cw,
98                                              short row, short column,
99                                              std::string word);
100 std::vector<std::vector<char>> make_diagonal( std::vector<std::vector<char>> cw,
101                                              short row, short column,
102                                              std::string word);
103
104
105 std::vector<std::vector<char>> place_word(std::vector<std::vector<char>> cw,
106                                         short row, short column,
107                                         std::string word);
108
109 std::vector<std::vector<std::vector<char>>> input_word(std::vector<std::vector<char>> cw,
110                                                       std::string s);
111
112 #endif

```

bj94684@ares:~\$ show-code crossword.cpp

crossword.cpp:

```

1  #include<iostream>
2  #include<string>
3  #include<vector>
4  #include<ctime>
5  #include<cstdlib>
6  #include<cctype>
7  #include"crossword.h"
8
9  using namespace std;
10
11
12 vector<vector<char>> fill_cw_w_l(vector<vector<char>> cw, char t)
13 {
14     vector<vector<char>> cw1 = cw;

```

```

15     for (auto & r : cw1)
16     {
17         for (auto & c : r)
18         {
19             if (c == t)
20             {
21                 c = static_cast<char> (rand() % ( static_cast<short>('z') -
22                                                  static_cast<short>('a') + 1 )
23                                         + static_cast<short>('a'));
24             }
25         }
26     }
27     return cw1;
28 }
29
30 vector<vector<char>> gen_cw_ans(vector<vector<char>> cw, char t)
31 {
32     vector<vector<char>> cw1 = cw;
33     for (auto & r : cw1)
34     {
35         for (auto & c : r)
36         {
37             if (c != t)
38             {
39                 c = static_cast<char>(toupper(c));
40             }
41         }
42     }
43     return cw1;
44 }
45
46
47
48 bool vertical(vector<vector<char>> cw, short row, short column, string word)
49 {
50     bool in;
51     short max_rows = static_cast<short>(cw.size() - 1);
52     short max_col = static_cast<short>(cw[0].size() - 1);
53     short r_loc = 0;
54     short c_loc = 0;
55     short num = 0;
56     for (string::size_type r = 0;
57          r != word.length(); ++r)
58     {
59         r_loc = row + static_cast<short>(r);
60         c_loc = column;
61         if (r_loc <= max_rows && c_loc <= max_col)
62         {
63             if (cw[row + r][column] == word[r] || cw[row + r][column] == ' ')
64             {
65                 ++num;
66             }
67         }
68     }

```

```

69     if (num == static_cast<short>( word.length() ) )
70     {
71         return in = true;
72     }
73     return in = false;
74 }
75 bool horizontal(vector<vector<char>> cw, short row, short column, string word)
76 {
77     bool in;
78     short num = 0;
79     short max_rows = static_cast<short>(cw.size() - 1);
80     short max_col = static_cast<short>(cw[0].size() - 1);
81     short r_loc = 0;
82     short c_loc = 0;
83     for (string::size_type r = 0;
84         r != word.length(); ++r)
85     {
86         r_loc = row;
87         c_loc = column + static_cast<short>(r);
88         if (r_loc <= max_rows && c_loc <= max_col)
89         {
90             if (cw[row][column + r] == word[r] || cw[row][column + r] == ' ')
91             {
92                 ++num;
93             }
94         }
95     }
96     if (num == static_cast<short>( word.length() ) )
97     {
98         return in = true;
99     }
100    return in = false;
101 }
102 bool diagonal(vector<vector<char>> cw, short row, short column, string word)
103 {
104     bool in;
105     short num = 0;
106     short max_rows = static_cast<short>(cw.size() - 1);
107     short max_col = static_cast<short>(cw[0].size() - 1);
108     short r_loc = 0;
109     short c_loc = 0;
110     for (string::size_type r = 0;
111         r != word.length(); ++r)
112     {
113         r_loc = row + static_cast<short>(r);
114         c_loc = column + static_cast<short>(r);
115         if (r_loc <= max_rows && c_loc <= max_col)
116         {
117             if (cw[row + r][column + r] == word[r] || cw[row + r][column +
118             {
119                 ++num;
120             }
121         }
122     }

```

```

123     if (num == static_cast<short>( word.length() ) )
124     {
125         return in = true;
126     }
127     return in = false;
128 }
129 }
130
131 bool fit_vertical(vector<vector<char>> cw, short row, string word)
132 {
133     bool in;
134     short num = 0;
135     short row_limit = static_cast<short>(cw.size() );
136     //short col_limit = static_cast<short>(cw[0].size() );
137     for (string::size_type r = 0;
138         r != word.length(); ++r)
139     {
140         num = row + static_cast<short>(r);
141         if ( num > row_limit)
142         {
143             return in = false;
144         }
145     }
146     return in = true;
147 }
148
149 bool fit_horizontal(vector<vector<char>> cw, short column, string word)
150 {
151     bool in;
152     short num = 0;
153     //short row_limit = static_cast<short>(cw.size() );
154     short col_limit = static_cast<short>(cw[0].size() );
155     for (string::size_type r = 0;
156         r != word.length(); ++r)
157     {
158         num = column + static_cast<short>(r);
159         if ( num > col_limit )
160         {
161             return in = false;
162         }
163     }
164     return in = true;
165 }
166
167 bool fit_diagonal(vector<vector<char>> cw, short row, short column, string
168 {
169     bool in;
170     short num = 0;
171     short num1 = 0;
172     short row_limit = static_cast<short>(cw.size());
173     short col_limit = static_cast<short>(cw[0].size());
174     for (string::size_type r = 0;
175         r != word.length(); ++r)
176

```

```

177     {
178         num = row + static_cast<short>(r);
179         num1 = column + static_cast<short>(r);
180         if ( num > row_limit || num1 > col_limit )
181         {
182             return in = false;
183         }
184     }
185     return in = true;
186 }
187
188 bool vertical_match(vector<vector<char>> cw, short row, short column, stri
189 {
190     bool in;
191     short max_rows = static_cast<short>(cw.size() - 1);
192     short max_col = static_cast<short>(cw[0].size( ) - 1);
193     short r_loc = 0;
194     short c_loc = 0;
195     short num = 0;
196     short num1 = 0;
197     for (string::size_type r = 0;
198         r != word.length(); ++r)
199     {
200         r_loc = row + static_cast<short>(r);
201         c_loc = column;
202         if (r_loc <= max_rows && c_loc <= max_col)
203         {
204             if (cw[row + r][column] == word[r] || cw[row + r][column] == ' ')
205             {
206                 ++num;
207             }
208             if (cw[row + r][column] == word[r])
209             {
210                 ++num1;
211             }
212         }
213     }
214     if (num == static_cast<short>( word.length() ) && num1 != 0)
215     {
216         return in = true;
217     }
218     return in = false;
219 }
220 bool horizontal_match(vector<vector<char>> cw, short row, short column, sti
221 {
222     bool in;
223     short max_rows = static_cast<short>(cw.size() - 1);
224     short max_col = static_cast<short>(cw[0].size( ) - 1);
225     short r_loc = 0;
226     short c_loc = 0;
227     short num = 0;
228     short num1 = 0;
229     for (string::size_type r = 0;
230         r != word.length(); ++r)

```

```

231     {
232         r_loc = row ;
233         c_loc = column + static_cast<short>(r);
234         if (r_loc <= max_rows && c_loc <= max_col)
235         {
236             if (cw[row][column + r] == word[r] || cw[row][column + r] == ' ')
237             {
238                 ++num;
239             }
240             if (cw[row][column + r] == word[r])
241             {
242                 ++num1;
243             }
244         }
245     }
246     if (num == static_cast<short>( word.length() ) && num1 != 0)
247     {
248         return in = true;
249     }
250     return in = false;
251 }
252 bool diagonal_match(vector<vector<char>> cw, short row, short column, stri
253 {
254     bool in;
255     short max_rows = static_cast<short>(cw.size() - 1);
256     short max_col = static_cast<short>(cw[0].size( ) - 1);
257     short r_loc = 0;
258     short c_loc = 0;
259     short num = 0;
260     short num1 = 0;
261     for (string::size_type r = 0;
262         r != word.length(); ++r)
263     {
264         r_loc = row + static_cast<short>(r);
265         c_loc = column + static_cast<short>(r);
266         if (r_loc <= max_rows && c_loc <= max_col)
267         {
268             if (cw[row + r][column + r] == word[r] || cw[row + r][column +
269             {
270                 ++num;
271             }
272             if (cw[row + r][column + r] == word[r])
273             {
274                 ++num1;
275             }
276         }
277     }
278     if (num == static_cast<short>( word.length() ) && num1 != 0)
279     {
280         return in = true;
281     }
282     return in = false;
283 }
284 }

```

```

285
286 vector<vector<char>> make_vertical (vector<vector<char>> cw, short row,
287     short column, string word)
288 {
289     vector<vector<char>> cw1 = cw;
290     for (string::size_type r = 0;
291         r != word.length(); ++r)
292     {
293         cw1[row + r][column] = word[r];
294     }
295     return cw1;
296 }
297
298 vector<vector<char>> make_horizontal (vector<vector<char>> cw, short row,
299     short column, string word)
300 {
301     vector<vector<char>> cw1 = cw;
302     for (string::size_type r = 0;
303         r != word.length(); ++r)
304     {
305         cw1[row][column + r] = word[r];
306     }
307     return cw1;
308 }
309
310 vector<vector<char>> make_diagonal (vector<vector<char>> cw, short row,
311     short column, string word)
312 {
313     vector<vector<char>> cw1 = cw;
314     for (string::size_type r = 0; r != word.length(); ++r)
315     {
316         cw1[row + r][column + r] = word[r];
317     }
318     return cw1;
319 }
320
321 vector<vector<char>> place_word(vector<vector<char>> cw, string word)
322 {
323     vector<vector<char>> cw1 = cw;
324     bool done;
325     do{
326         short row = rand_num(0,9);
327         short col = rand_num(0,9);
328         short indicator = rand_num(0,1);
329         short indicator2 = rand_num(1,3);
330         if (indicator == 1)
331         {
332             word = reverse_word(word);
333         }
334         if(indicator2 == 1)
335         {
336             if (fit_vertical(cw1, row, word))
337             {
338

```

```

339         if (vertical(cw1, row, col, word) )
340         {
341             cw1 = make_vertical(cw1, row, col, word);
342             done = true;
343         }
344         else
345         {
346             done = false;
347         }
348     }
349     else
350     {
351         done = false;
352     }
353 }
354 else if (indicator2 == 2)
355 {
356     if (fit_horizontal(cw1,col, word))
357     {
358         if (horizontal(cw1, row, col, word) )
359         {
360             cw1 = make_horizontal(cw1, row, col, word);
361             done = true;
362         }
363         else
364         {
365             done = false;
366         }
367     }
368     else
369     {
370         done = false;
371     }
372 }
373 else
374 {
375     if (fit_diagonal(cw1, row, col, word))
376     {
377         if (diagonal(cw1, row, col, word) )
378         {
379             cw1 = make_diagonal(cw1, row, col, word);
380             done = true;
381         }
382         else
383         {
384             done = false;
385         }
386     }
387     else
388     {
389         done = false;
390     }
391 }
392 }while( ! done);

```

```

393     return cw1;
394 }
395
396 vector < vector< vector<char> > > input_word(vector<vector<char>> cw, stri
397 {
398     vector < vector< vector<char> > > crossword;
399     vector<vector<char>> cw1 = cw;
400     vector<vector<char>> cw12 = cw;
401     for (vector<vector<char> >::size_type row = 0;
402         row != cw1.size(); ++row)
403     {
404         for (vector<char>::size_type col = 0;
405             col != cw1[row].size(); ++col)
406         {
407             if (vertical_match(cw1, row, col, s) )
408             {
409                 cw12 = make_vertical(cw1, row, col, s);
410                 crossword.push_back(cw12);
411             }
412         }
413     }
414     vector<vector<char>> cw2 = cw;
415     vector<vector<char>> cw22 = cw;
416     for (vector<vector<char> >::size_type row = 0;
417         row != cw2.size(); ++row)
418     {
419         for (vector<char>::size_type col = 0;
420             col != cw2[row].size(); ++col)
421         {
422             if (horizontal_match(cw2, row, col, s) )
423             {
424                 cw22 = make_horizontal(cw2, row, col, s);
425                 crossword.push_back(cw22);
426             }
427         }
428     }
429     vector<vector<char>> cw3 = cw;
430     vector<vector<char>> cw32 = cw;
431     for (vector<vector<char> >::size_type row = 0;
432         row != cw3.size(); ++row)
433     {
434         for (vector<char>::size_type col = 0;
435             col != cw3[row].size(); ++col)
436         {
437             if (diagonal_match(cw3, row, col, s) )
438             {
439                 cw32 = make_diagonal(cw3, row, col, s);
440                 crossword.push_back(cw32);
441             }
442         }
443     }
444
445     return crossword;
446 }

```

bj94684@ares:~\$ show-code cw.cpp

cw.cpp:

```

1  #include<iostream>
2  #include<fstream>
3  #include<string>
4  #include<vector>
5  #include<ctime>
6  #include<cctype>
7  #include"crossword.h"
8
9  using namespace std;
10
11 inline vector<string>::size_type maximum(const vector<string> & vec)
12 {
13     vector<string>::size_type max = 0;
14     for (vector<string>::size_type at = 1;
15         at < vec.size(); ++at)
16     {
17         if (vec[at].length() > vec[max].length())
18         {
19             max = at;
20         }
21     }
22     return max;
23 }
24
25
26 int main()
27 {
28     srand(static_cast<unsigned>(time(nullptr)));
29     cout << "\n\t\tWelcome to the Crossword Generator\n\n";
30     ifstream file;
31     string fn;
32     cout << "\nPlease enter the name of your names files: ";
33     getline(cin, fn);
34     file.open(fn);
35     while ( ! file )
36     {
37         file.close();
38         file.clear();
39         cout << "\nIm sorry I could open " << "'" << fn << "'"
40             << ". Please enter another name: ";
41         getline(cin, fn);
42         file.open(fn);
43     }
44     cout << "\nFile " << "'" << fn << "'" << " was opened succesfully\n";
45     string s;
46     vector<string> names;
47     file >> ws;
48     while (!file.eof())

```

```

49 {
50     file >> s;
51     names.push_back(s);
52     file >> ws;
53 }
54 file.close();
55 file.clear();
56 vector<string>::size_type max_loc = maximum(names);
57 short max_size = static_cast<short>(names[max_loc].length( ) + 2);
58 string word1 = names[0];
59 //cout << "The Number of Words are: " << names.size() << '\n';
60 //cout << "The Biggest word is the " << max_loc << " of the list\n";
61 vector<vector<char>> crossword1;
62 crossword1 = generate_cw(crossword1,max_size,max_size);
63 vector<vector<char>> crossword = fill_cw(crossword1, '*');
64 vector<vector<char> > cw1;
65 short indicator;
66 long tries = 0;
67 long max_tries = 50;
68 do
69 {
70     indicator = 1;
71     vector<vector<char> > cw = place_word(crossword, word1);
72     cw1 = cw;
73     vector < vector<vector<char>> > cw_u;
74     for (vector<string>::size_type r= 1;
75         r != names.size(); ++r)
76     {
77         short reverse = rand_num(0,1);
78         string n = names[r];
79         if ( reverse == 1)
80         {
81             n = reverse_word(n);
82         }
83         cw_u = input_word(cw1, n);
84         if ( ! cw_u.empty())
85         {
86             short i = rand_num(0,static_cast<short>(cw_u.size() - 1));
87             cw1 = cw_u[i];
88             ++indicator;
89         }
90         else
91         {
92             cw1 = place_word(cw1,n);
93             if ( ! cw1.empty())
94             {
95                 ++indicator;
96             }
97             else
98             {
99                 break;
100             }
101         }
102     }

```

```

103         ++tries;
104         //display(cw1);
105         //cout << '\n';
106     }while ( indicator != static_cast<short>(names.size() ) || tries != max_tries);
107     //display(cw1);
108     //cout << '\n';
109     vector<vector<char> > cw_ans = gen_cw_ans(cw1, '*');
110     vector<vector<char> > crossword_u = fill_cw_w_l(cw1, '*');
111     cout << "The Generated Crossword:\n";
112     display(crossword_u);
113     cout << "\nThe Answer Key:\n";
114     display(cw_ans);
115     cout << '\n';
116
117     return 0;
118 }

```

bj94684@ares:~\$ CPP crossword cw
crossword.cpp...
cw.cpp**
crossword.cpp: In function
'void place_word(std::vector<std::vector<char> > > crossword, const std::string& word):
crossword.cpp:407:41: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value
[-Wconversion]
407 | if (vertical_match(cw1, row,
col, s))
|
crossword.cpp:407:46: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
407 | if (vertical_match(cw1, row,
col, s))
|
crossword.cpp:409:47: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value
[-Wconversion]
409 | cw12 = make_vertical(cw1,
row, col, s);
|
crossword.cpp:409:52: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
409 | cw12 = make_vertical(cw1, row,
col, s);
|

```

^~~
crossword.cpp:422:43: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value
[-Wconversion]
  422 |             if (horizontal_match(cw2, row,
      |             col, s) )
      |             ^~~
crossword.cpp:422:48: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
  422 |             if (horizontal_match(cw2, row,
      |             col, s) )
      |             ^~~
crossword.cpp:424:49: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value
[-Wconversion]
  424 |             cw22 = make_horizontal(cw2,
      |             row, col, s);
      |             ^~~
crossword.cpp:424:54: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
  424 |             cw22 = make_horizontal(cw2, row,
      |             col, s);
      |             ^~~
crossword.cpp:437:41: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value
[-Wconversion]
  437 |             if (diagonal_match(cw3, row,
      |             col, s) )
      |             ^~~
crossword.cpp:437:46: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
  437 |             if (diagonal_match(cw3, row,
      |             col, s) )
      |             ^~~
crossword.cpp:439:47: warning:
conversion from 'std::vector<std::vector<char>
>::size_type' {aka 'long unsigned
int'} to 'short int' may change value

```

```

[-Wconversion]
  439 |             cw32 = make_diagonal(cw3,
      |             row, col, s);
      |             ^~~
crossword.cpp:439:52: warning:
conversion from 'std::vector<char>::size_type'
{aka 'long unsigned int'} to 'short
int' may change value [-Wconversion]
  439 |             cw32 = make_diagonal(cw3, row,
      |             col, s);
      |             ^~~

```

bj94684@ares:~\$./cw.out

Welcome to the Crossword Generator

Please enter the name of your names files: sjdsda

Im sorry I could open "sjdsda". Please enter another name: cw_names1

File "cw_names1" was opened succesfully

The Generated Crossword:

```

l e v d y o f x f b
e r q g b p o s i c
h t i j m y s x g j
t j p r o p e r t y
v x f a u v t f u a
i y r z r h s q x m
b z t w n j d f u b
e a l x i l e a k m
i u r i n p h t y m
m q k m g a k f b r

```

The Answer Key:

```

* * * * *
* * * * *
* * * * M * * * *
* * P R O P E R T Y
* * * * U * * * *
* * * * R * * * *
* * * * N * D * *
* * * * I L E A K *
* * * * N * H T Y M
* * * * G * * * *

```

bj94684@ares:~\$./cw.out

Welcome to the Crossword Generator

Please enter the name of your names files: cw_names2

File "cw_names2" was opened succesfully

The Generated Crossword:

g r r u h o c y z p u i u
m n n s r l i m s c q e c
e i o v s o k g x b a r k
q v i i t p l f z h r o b
l z t i a k x r o n y y r
r g a m n e i q s h d t u
y e r k d v x u o b a h t
a o e d e l i c a t e n r
p y p l a n e s e q r b v
k q o k i h b o i e v l g
p s o b k t h u p b d y y
w t c y m g s w e l l r d
g i f d u x n c h o k e c

The Answer Key:

* * * * *
* * N * * * * *
* * O * S * * * * *
* * I * T * * * * *
* * T I A * * * * * Y * *
* * A * N E * * * * * D * *
* * R * D V X * * * A * *
* * E D E L I C A T E * *
* * P L A N E S E * R * *
* * O * * * * * I E * * *
* * O * * * * * B D * *
* * C * * * * S W E L L * *
* * * * * C H O K E *

bj94684@ares:~\$./cw.out

Welcome to the Crossword Generator

Please enter the name of your names files: cw_names1

File "cw_names1" was opened succesfully

The Generated Crossword:

p p d a y q o a j i
w y k j f a u d n h
y t r e p o r p g d
v m w c r o d r o b
h z s z s g z b p x
b b m o u r n i n g
g i b y c n p j w u
h k s j t b g o v x
q e y i d h q r e t
k a e l i c w j k h

The Answer Key:

* * D A Y * * * * *
* * * * *
Y T R E P O R P * *
* * * * *
* * * * *
* * M O U R N I N G
* * * Y * * * * *
* * * * T * * * * *
* * * * H * * * * *
K A E L * * * * *

bj94684@ares:~\$./cw.out

Welcome to the Crossword Generator

Please enter the name of your names files: cw_names1

File "cw_names1" was opened succesfully

The Generated Crossword:

j c b l z n f g g m
m j b b e m f n f d
v y q r p a o i w s
d y s b b r k n a k
c a e n b u v r k i
h d t j k h o u s k
k q y t r e p o r p
a d h o h t y m z z
t u c v l e h n j u
p f p z n y u w l b

The Answer Key:

* * * L * * * G * *
* * * * E * * N * *
* * * * A * I * *
* Y * * * * K N * *
* A * * * * R * *
* D * * * * U * *
* * Y T R E P O R P
* * * * H T Y M * *
* * * * * * * * *
* * * * * * * * *

bj94684@ares:~\$./cw.out

Welcome to the Crossword Generator

Please enter the name of your names files: cw_names2

File "cw_names2" was opened succesfully

The Generated Crossword:

b e z z a y p h p l y h a
m k n e t a c i l e d i i

g o e x p l a n e k a t g
b f h k i e o v w o e d q
b e p s b x d i g h r k u
r u w g w c e s l c o n r
f t p a d e z i q f j c p
x y s p n e l b b z g e e
p r y g a d l l w o r k f
g n o i t a r e p o o c b
k z s k s b k r m o h j p
b b q a j x e y q e h d d
v u n c d q m c j y f v s

The Answer Key:
* * * * * Y * * *
* * * E T A C I L E D * * *
* * * P L A N E K A * * *
* * * * E * V * O E * * *
* * * S * X * I * H R * * *
* * * * W C * S * C * * * *
* * * * D E * I * * * * *
* * * * N E L B * * * * *
* * * * A D * L * * * * *
* N O I T A R E P O O C *
* * * * S * * * * * * *
* * * * * * * * * * * *
* * * * * * * * * * * *

bj94684@ares:~\$ exit
exit

Script done on 2023-07-13 22:13:52-05:00 [COMMAND_EXIT_CODE="0"]