```
1 using System;
 2 using System.Collections.Generic;
 3 using System.ComponentModel;
 4 using System.Data;
 5 using System.Drawing;
 6 using System.Linq;
 7 using System.Text;
 8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Fisher
12 {
13
14
        public partial class Form1 : Form
15
            // startup varablies
16
17
            private int score = 0;
            private int fishCount = 20;
18
            private bool hooking = false;
19
20
            private int dir = 1;
21
            System.Random r = new System.Random((int)
22
            System.DateTime.Now.Ticks);
23
            PictureBox[] DaSea = new PictureBox[20];
24
            PictureBox[] bubbles = new PictureBox[4];
25
            public Form1()
26
            {
27
                InitializeComponent();
28
            }
29
30
            private void label3_Click(object sender, EventArgs e)
31
32
33
34
            //when the program starts
            private void Form1_Load(object sender, EventArgs e)
35
36
               // debuging
37
38
                Console.WriteLine(Hook.Top);
39
                Console.WriteLine(Chain1.Top);
40
                Console.WriteLine(Chain2.Top);
41
                // setting arrays for fish
42
43
               DaSea[0] = Fish0;
44
               DaSea[1] = Fish1;
45
               DaSea[2] = Fish2;
46
               DaSea[3] = Fish3;
47
                DaSea[4] = Fish4;
48
               DaSea[5] = Fish5;
49
               DaSea[6] = Fish6;
```

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2
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```
DaSea[7] = Fish7;
51
                DaSea[8] = Fish8;
52
                DaSea[9] = Fish9;
53
                DaSea[10] = Fish10;
54
                DaSea[11] = Fish11;
55
                DaSea[12] = Fish12;
56
                DaSea[13] = Fish13;
57
                DaSea[14] = Fish14;
58
                DaSea[15] = Fish15;
59
                DaSea[16] = Fish16;
60
                DaSea[17] = Fish17;
61
                DaSea[18] = Fish18;
62
                DaSea[19] = Fish19;
63
64
                // setting arrays for bubbles
                bubbles[0] = bubble0;
65
66
                bubbles[1] = bubble1;
                bubbles[2] = bubble2;
67
68
                bubbles[3] = bubble3;
69
                // setting pos for fish
70
                for (int n = 0; n < DaSea.Length; n++)</pre>
71
                {
72
                    int randomx = r.Next(0, this.Width);
73
                    int randomy = r.Next(label1.Top, this.Height);
74
                    DaSea[n].Left = randomx;
75
                    DaSea[n].Top = randomy;
76
                }
77
            }
78
            // update timer
79
            private void timer1_Tick(object sender, EventArgs e)
80
81
                // bubble code
82
                for (int u = 0; u < bubbles.Length; u++)</pre>
83
84
                    bubbles[u].Top -= 15;
85
                    if (bubbles[u].Top <= label1.Top)</pre>
86
                    {
87
                         int randomxbub = r.Next(0, this.Width);
88
                         int randomybub = r.Next(label1.Top, label2.Top);
89
                         bubbles[u].Left = randomxbub;
90
                         bubbles[u].Top = randomybub;
91
                    }
92
                }
93
94
95
96
                //boat movement
97
                if (dir == 0)
98
```

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3
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```
99
                      boat.Left -= 9;
100
                      boat.Image = imgboatL.Image;
101
                 else
102
103
                 {
104
                      boat.Left += 9;
105
                      boat.Image = imgboatR.Image;
106
                 }
107
                 if (boat.Left < 0)</pre>
108
109
110
                      dir = 1;
111
112
                 if (boat.Left > this.Width - 150)
113
114
                      dir = 0;
115
                  }
                 Hook.Left = boat.Left;
116
117
                 Chain1.Left = boat.Left;
                 Chain2.Left = boat.Left;
118
119
                 // hook func
                 if (hooking)
120
121
                      Hook.Top += 9;
122
                      Chain1.Top += 9;
123
124
                      Chain2.Top += 9;
125
                  }
126
                 else
127
                 {
128
                      Hook. Top = 106;
129
                      Chain1.Top = -64;
130
                      Chain2.Top = 24;
131
                 }
132
133
                 if(Hook.Top >= 286)
134
135
                      hooking = false;
136
                 }
137
138
                 // fish movement
                 int randomx = r.Next(0, 2);
139
140
                 int randomy = r.Next(0, 2);
                 for (int i = 0; i < DaSea.Length; i++)</pre>
141
142
                      randomx = r.Next(0, 2);
143
144
                      randomy = r.Next(0, 2);
145
                      if (DaSea[i].Image != imgFishDead.Image)
146
                      {
147
```

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```
148
                          if (randomx == 1)
149
                          {
150
151
                              DaSea[i].Image = imgFishAliveR.Image;
152
                              DaSea[i].Left += 9;
153
154
                          }
155
                          else
156
                          {
157
158
                              DaSea[i].Image = imgFishAliveL.Image;
159
                              DaSea[i].Left -= 9;
160
161
                          }
162
163
                          if (randomy == 1)
164
165
                              DaSea[i].Top += 9;
166
                          }
167
                          else
168
                          {
169
                              DaSea[i].Top -= 9;
170
                          // fix 00B
171
172
                          if (DaSea[i].Top < label1.Top)</pre>
173
                              DaSea[i].Top = label1.Top;
174
175
                          if (DaSea[i].Top > label2.Top)
176
177
178
                              DaSea[i].Top = label2.Top;
179
                          }
180
181
                          if (DaSea[i].Left < 0)</pre>
182
                          {
                              DaSea[i].Left = 0;
183
184
185
                          if (DaSea[i].Left > this.Width - 150)
186
                              DaSea[i].Left = this.Width - 150;
187
188
                          // collision func
189
190
                          if (DaSea[i].Bounds.IntersectsWith(Hook.Bounds))
191
192
                              if (hooking)
193
194
                                  DaSea[i].Visible = false;
195
                                  DaSea[i].Image = imgFishDead.Image;
                                  fishCount -= 1;
196
```

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```
197
                                   score++;
198
                                   lblscore.Text = score.ToString();
199
                              }
200
                          }
                          if (DaSea[i].Bounds.IntersectsWith(Shark.Bounds))
201
202
203
                              DaSea[i].Top = label2.Top;
204
                              DaSea[i].Image = imgFishDead.Image;
205
                              fishCount -= 1;
206
                          }
207
                      }
208
                 }
209
210
                 // shark movement
                 if (randomx == 1)
211
212
                 {
213
214
                      Shark.Image = imgSharkR.Image;
215
                      Shark.Left += 9;
216
                 }
217
218
                 else
219
                 {
220
221
                      Shark.Image = imgSharkL.Image;
222
                      Shark.Left -= 9;
223
224
                 }
225
226
                 if (randomy == 1)
227
                 {
228
                      Shark.Top += 9;
229
                 }
230
                 else
231
                 {
                      Shark.Top -= 9;
232
233
                 }
234
                 // fix 00B
                 if (Shark.Top < label1.Top)</pre>
235
236
                      Shark.Top = label1.Top;
237
238
                 }
239
                 if (Shark.Top > label2.Top)
240
241
                      Shark.Top = label1.Top;
242
                 }
243
244
                 if (Shark.Left < 0)</pre>
245
```

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```
246
                     Shark.Left = 0;
247
248
                 if (Shark.Left > this.Width - 150)
249
                 {
250
                     Shark.Left = this.Width - 150;
251
                 }
252
                 // message box func
253
                 if(fishCount <= 0)</pre>
254
                 {
                     timer1.Enabled = false;
255
                     DialogResult resultAnswer = DialogResult;
256
                     string messageString = null;
257
258
                     string msg = null;
259
                     messageString = "Game Over ";
260
                     msg = score.ToString();
                     resultAnswer = MessageBox.Show("Your Score is " + msg + "\n
261
                        Would You Like To Play Again?",
262
                     messageString,
263
                     MessageBoxButtons.YesNo,
                     MessageBoxIcon.Question);
264
                     if (resultAnswer == DialogResult.Yes)
265
266
                     {
267
                          timer1.Enabled = true;
                          score = 0;
268
269
270
                          lblscore.Text = "0";
271
272
                          for (int n = 0; n < DaSea.Length; n++)</pre>
273
                          {
                              randomx = r.Next(0, this.Width);
274
275
                              randomy = r.Next(label1.Top, this.Height);
276
                              DaSea[n].Left = randomx;
277
                              DaSea[n].Top = randomy;
278
                              DaSea[n].Image = imgFishAliveL.Image;
279
                              fishCount += 1;
280
                          }
281
282
283
                     }
                     if (resultAnswer == DialogResult.No)
284
285
                     {
286
                          this.Close();
287
                     }
288
                 }
289
290
             }
291
292
             private void Fish9_Click(object sender, EventArgs e)
293
```

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```
294
295
             }
296
             private void Hook_Click(object sender, EventArgs e)
297
298
             {
299
300
             }
301
302
             private void Form1_KeyPress(object sender, KeyPressEventArgs e)
303
             {
304
305
306
307
             // keyboard controlls
308
             private void Form1_KeyDown(object sender, KeyEventArgs e)
309
310
                 int whichKey = e.KeyValue;
311
                 if (whichKey == 32)
312
                 {
313
                     if (hooking)
314
                     {
315
                         hooking = false;
316
                     }
317
                     else
318
                     {
319
                         hooking = true;
320
                     }
321
                 }
322
             }
323
        }
324 }
325
```