```
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. Windows. Forms;
10 namespace WindowsFormsApplication3
11 {
12
13
       public partial class Form1 : Form
14
15
           public static bool gameFinish;
16
           public static bool verrouComputer;
17
           public static bool verrouPlayer;
18
19
           public static int nbPush;
20
           public static int turnValue;
           public static int scoreJoueur;
21
2.2
           public List<string> listesCoupsMemory = new List<string>();
23
           public string[] coupsPossibles = {"RED", "BLUE", "GREEN", "YELLOW"};
24
           public const int SCORE CLICK CORRECT VALUE = 10;
25
           public const int SCORE_SERIE CORRECT VALUE = 100;
2.6
2.7
28
           public Form1()
29
3.0
31
               InitializeComponent();
32
               initializeGame();
33
               this.buttonRed.Click += new System.EventHandler(this.
                                                                                             ~
       playColorHandler Click);
34
               this.buttonYellow.Click += new System.EventHandler(this.
       playColorHandler Click);
35
               this.buttonGreen.Click += new System.EventHandler(this.
       playColorHandler Click);
36
               this.buttonBlue.Click += new System.EventHandler(this.
       playColorHandler_Click);
37
38
39
           private void initializeGame()
40
41
               turnValue = 1;
42
               scoreJoueur = 0;
               gameFinish = false;
43
44
           }
45
46
           private void initializeTurn()
47
48
               buttonRed.Text = coupsPossibles[0];
               buttonBlue.Text = coupsPossibles[1];
49
50
               buttonGreen.Text = coupsPossibles[2];
51
               buttonYellow.Text = coupsPossibles[3];
52
               listesCoupsMemory = new List<string>();
53
               nbPush = 0;
               for (int i = 0; i < turnValue; i++) {</pre>
54
55
                   int valeurRandom = new Random().Next(0, coupsPossibles.Length - 1);
56
                   listesCoupsMemory.Add(coupsPossibles[valeurRandom]);
57
                   verrouComputer = true;
58
                   showColor(coupsPossibles[valeurRandom]);
59
                   verrouComputer = false;
60
61
               //System.Threading.Thread.Sleep(15000);
62
63
           private void playColorHandler Click(object sender, EventArgs e)
64
65
66
               buttonRed.Text = coupsPossibles[0];
67
               buttonBlue.Text = coupsPossibles[1];
68
               buttonGreen.Text = coupsPossibles[2];
69
               buttonYellow.Text = coupsPossibles[3];
70
               if (!verrouComputer) {
```

```
71
                     verrouPlayer = true;
 72
                     Button button = (Button) sender;
 73
                     string buttonValue = button.Text;
 74
                     if (listesCoupsMemory.IndexOf(buttonValue) == nbPush)
 75
 76
                         scoreJoueur += SCORE CLICK CORRECT VALUE;
 77
 78
                         if (++nbPush == listesCoupsMemory.Count)
 79
 80
                             scoreJoueur += SCORE SERIE CORRECT VALUE;
 81
                             turnValue++;
 82
                             verrouPlayer = false;
 83
                         }
 84
                         else
 85
                         {
 86
                             nbPush++;
 87
 88
                         labelTurnValue.Text = turnValue.ToString();
 89
                         scoreValue.Text = scoreJoueur.ToString();
 90
 91
                         gameFinish = true;
 92
 93
 94
 95
                 if (gameFinish) {
 96
 97
                     label2.Text = "Perdu!";
 98
                     initializeGame();
 99
                 }
100
            }
101
102
            public void showColor(String color)
103
104
                 if (color.Equals("RED")) {
105
                     //buttonRed.PerformClick();
106
                     buttonRed.Text = "X";
                 }else if(color.Equals("BLUE")) {
107
108
                     //buttonBlue.PerformClick();
                     buttonBlue.Text = "X";
109
                 }else if(color.Equals("GREEN")){
110
111
                     //buttonGreen.PerformClick();
                     buttonGreen.Text = "X";
112
113
                 }else if(color.Equals("YELLOW")) {
114
                     //buttonYellow.PerformClick();
115
                     buttonYellow.Text = "X";
116
                 }else{
117
                     //couleur non gérée
118
119
                 System.Console.Beep();
120
121
122
            private void buttonNewGame Click(object sender, EventArgs e)
123
124
                 initializeTurn();
125
            }
126
127
            private void buttonExit Click(object sender, EventArgs e)
128
129
                Application.Exit();
130
131
132
        }
133 }
134
```