```
1 - Create Turkmite class, ctor takes image, Step() method (image as
     dependency injection)
2
3 - Color constants
4
5 (commit)
7 - Direction with modulo: (d + 4) % 4
8 - Direction with dxy from array, X += ..., X and Y limiter with Min, Max
9 - extract Step() method
10 - extract: private (Vec3b newColor, int turn) GetStep(Vec3b
     currentColor)
11
           public void Step()
12
13
           {
14
                Vec3b currentColor = Indexer[Y, X];
15
                (Vec3b newColor, int turn) = GetStep(currentColor);
                Indexer[Y, X] = newColor;
17
18
                direction += turn;
19
               direction = (direction+4) % 4;
20
21
                (int, int)[] dxy = [(0, -1), (1, 0), (0, 1), (-1, 0)];
22
23
                (var dx, var dy) = dxy[direction];
               X += dx;
24
25
               Y += dy;
               X = Math.Min(Math.Max(X, 0), 199);
26
27
               Y = Math.Min(Math.Max(Y, 0), 199);
           }
28
29
           private (Vec3b newColor, int turn) GetStep(Vec3b currentColor)
30
31
               return currentColor == black ? (white, 1) : (black, -1);
32
33
           }
34
35 (commit)
36
37 - Create base class for turkmites, original turkmite into BasicTurkmite
38 - Create unit test for BasicTurkmite using a BasicTurkmiteMock
39
40 (commit)
41
42 - Create a new turkmite with a different color
43
44
               return currentColor == black ? (red, 1) :
                                                                              P
                  ( currentColor==red ? (yellow, -1) : (black, -1));
45
46 - Add PreferredStepCount
47
           public abstract int PreferredStepCount { get; }
48
49
50 (commit)
```