

```

1  procedure dlugosc_NWP(X, Y);
2  begin
3      m := length[X];
4      n := length[Y];
5      for i := 1 to m do
6          c[i, 0] := 0;
7      end for;
8      for j := 1 to n do
9          c[0, j] := 0;
10     end for;
11     for i := 1 to m do
12         for j := 1 to n do
13             if  $x_i = y_j$  then
14                 c[i, j] := c[i-1, j-1] + 1;
15                 b[i, j] := '↖';
16             else
17                 if  $c[i-1, j] \geq c[i, j-1]$  then
18                     c[i, j] := c[i-1, j];
19                     b[i, j] := '↑';
20                 else
21                     c[i, j] := c[i, j-1];
22                     b[i, j] := '←';
23                 end if;
24             end if;
25         end for;
26     end for;
27     return c, b;
28 end.

```

1. Algorytm wyznaczania długości najdłuższego wspólnego podciągu (NWP)