

```
ClearAll["Global`*"];
f[x_] := x^2 - 2;
g[x_] := x - f[x]/f'[x];
ng[x_] := N[g[x], 140];
n = 10;
(v = NestList[ng, 1, n]) // TableForm;
ukaz[x_, y_] := Row[
  w1 = ToString[x];
  w2 = ToString[y];
  l1 = StringLength[w1];
  l2 = StringLength[w2];
  l = Min[l1, l2];
  s1 = StringTake[w1, l];
  s2 = StringTake[w2, l];
  shoda = True;
  t = Table[
    c1 = StringTake[s1, {i}];
    c2 = StringTake[s2, {i}];
    color = If[c1 == c2 && shoda, Red, shoda = False; Black];
    cc = Style[c1, color],
    {i, l}];
  Table[ukaz[v[[i]], v[[i + 1]], {i, n - 1}] // TableForm
```

[illegible]