```
ValidColouring[k, e, s, q] returns True if the knot k, given in modified DT form, can be
   coloured if it has edge generators given by the list e, crossing mappings given
   by the list s, and generator values given by the list g and False otherwise.
ValidColouring[k MDT, e List, s List, g List] :=
  ValidColouring[k, e, s, q] =
   Block[{v, w = List@@@List@@ToPD@k, n = Length@k},
     v = Array[0 \&, 2 n]; v[e] = q;
     And @@ Table [PermutationConjugation[v[c[1]]],
           SortBv[w, Length[c \cap \#] \&][-1]
            // If[#[3]] = Mod[#[5]] + 1, 2n, 1],
               v[c[2]],
               InversePermutation@v[c[2]]] &]
         // If[v[c[3]]] === 0, v[c[3]]] = #;
            True, v[c[3]] = #1 &,
        {c, s}]];
```