

```

KnotGraph@k_MDT := KnotGraph@k = (Join @@ Table[
  Array[{v, # - 1}  $\mapsto$  {v, Mod[#, 4]} &, 4] U
  {{v, 0}  $\mapsto$ 
    {Ordering[List @@ Abs /@ k][[v]], 1},
    {v, 2}  $\mapsto$  {Ordering[List @@ Abs /@ k][[
      Mod[v - 1, Length@k, 1]]], 3}}},
  {v, Length@k}] // Graph);

```