

```

RVK[pd_PD] := PPRVK@Module[ {n, xs, x, rots, front = {0}, k},
  n = Length@pd; rots = Table[0, {2 n}] ;
  xs = Cases[pd, x_X := { Xp[x[[4]], x[[1]] PositiveQ@x
                          Xm[x[[2]], x[[1]] True }];
  For[k = 0, k < 2 n, ++k, If[k == 0 ∨ FreeQ[front, -k],
    front = Flatten[front /. k → (xs /. {
      Xp[k + 1, L_] | Xm[L_, k + 1] := {L, k + 1, 1 - L},
      Xp[L_, k + 1] | Xm[k + 1, L_] := (++)rots[[L];
      {1 - L, k + 1, L})
    ]],
    Cases[front, k | -k] /. {k, -k} := --rots[[k + 1]];
  ]];
RVK[xs, rots] ];
RVK[K_] := RVK[PD[K]];

```