

```

RVK [pd_PD] :=

PP_RVK@Module[ {n, xs, x, rrots, front = {0}, k},
n = Length@pd; rrots = 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@Replace[front, k → (xs /. {
Xp[k + 1, l_] | Xm[l_, k + 1] :>
{l, k + 1, 1 - l},
Xp[l_, k + 1] | Xm[k + 1, l_] :>
(++rrrots[[l]]);
{1 - l, k + 1, l}),
_Xp | _Xm :> {} }
}), {1}],,
Cases[front, k | -k] /.
{k, -k} :> --rrrots[[k + 1]];
];
RVK[xs, rrots] ];

RVK[K_] := RVK[PD[K]];

```