```
KC[pd_PD, r_] := If[r < -n_-[pd] || r > n_+[pd], {},
   Join @@
     (((v_#) V[pd, #]) & /@
       Permutations[Table[0, n_+[pd] - r] ~Join~
         Table[1, r + n_-[pd]]])
  ];
KC[pd_PD, r_, deg_] :=
 Cases[KC[pd, r],
  u_ /; udeg[u] - 2 n_-[pd] + n_+[pd] == deg]
```