```
PassMapping[v, l, p, c, n, a, i] gives the values that a should be mapped to
  after a 2-pass has been made at index i, from indices v with all indices l,
  passing over the list of strands c, in an n-crossing knot with a list of pairs p.
PassMapping[v List, l List, p List,
   c List, n Integer, a Integer, i Integer] :=
  PassMapping[v, l, p, c, n, a, i] =
   If[Length[v \cap 1[;;2]] = 1,
    Mod[If[MemberQ[v \cup Join@ec, a],
         If [MemberQ[c[1]], a],
          a + If[Mod[Abs@p[[1[[1]]] - i, 2n] > 1, 1, -1],
          If[MemberQ[c[2], a], a +
             If[Mod[Abs@p[[1[3]]] - i, 2n] > 1, 1, -1],
            (1[{2,1,4,3}]+{-1,1,-1,1})
             [Position[1, If[OddQ[1[1]]+1[2]]],
                Total@v-a, a]][1, 1]]]],
        a], 2n, 1]
      If[MemberQ[v[]Join@@c, a] || EvenQ@a,
       If[Mod[a-i, 2n] \le 1 \mid | OddQ@a \&\& \neg MemberQ[1, a],
         -Sign@p[a], 1],
       Sign@p[a]],
    Mod[If[MemberQ[v, a],
         SortBy[Delete[1, FirstPosition[1, #] & /@ v],
           Mod[#, 2] &] [Mod[a, 2] + 1],
         a + If [MemberQ[Join@@c, a], 0,
           If[MemberQ[v, 1[Ordering[Mod[a-1, 2n, 1]][
                 1]]], -1, 1]]], 2n, 1]
      If[OddQ@a, Sign@p[a]] If[MemberQ[v \cup Join@@c, a],
          1, -1], 1]];
```