```
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]Join@@c, 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]]],
                a], 2n, 1]
      If[MemberQ[v[]Join@@c, a] || EvenQ@a,
       If[Mod[a-i, 2n] \le 1 \mid | OddQ@a \&\& \neg MemberQ[l, 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,
             l[Ordering[Mod[a-1, 2n, 1]][1]]],
            -1, 1]]], 2n, 1]
      If [OddQ@a,
       Sign@p[a] If [MemberQ[v] Join@@c, a], 1, -1],
       1]];
```