

```

c@A[is_, os_, cs_, w_] := Fold[c_#2, #2[#1] &, A[is, os, cs, w], is ∩ os]
A[{A_ A}] := c[A];
A[{A1_ A, As__ A}] := Module[{A2},
  A2 = First@MaximalBy[{As}, Length[A1[[1]] ∩ #[[2]]] + Length[A1[[2]] ∩ #[[1]]] &];
  A[Join[{c[A1 A2]}, DeleteCases[{As}, A2]]] ]
A[os_List] := A[A/@os]

```