



$S \rightarrow A + B$ (1)
 $A \rightarrow D$ (2)
 $A + B + D \rightarrow E + F$ (3)
 $E + F \rightarrow S$ (4)

The grey edges are not directed.
 The blue edges are directed
 connecting the reactos to the
 products.

The plus sign in the 4th reaction has three
 adjacents : F,E and S.
 The dif_side boolean for the first two is
 false (because the plus sign with F and E
 are in the same side). But the boolean for
 S, -being in the different side- is true.
 The toself parent in each adjacent points
 to itself as a vertex. The parent pointer in
 each adjacent points to the chemical or
 the plus sign that has made it: for instance
 the parent in reaction 4 the parent of S
 is the plus sign. In reaction 1, the parent of
 the plus sign is S.