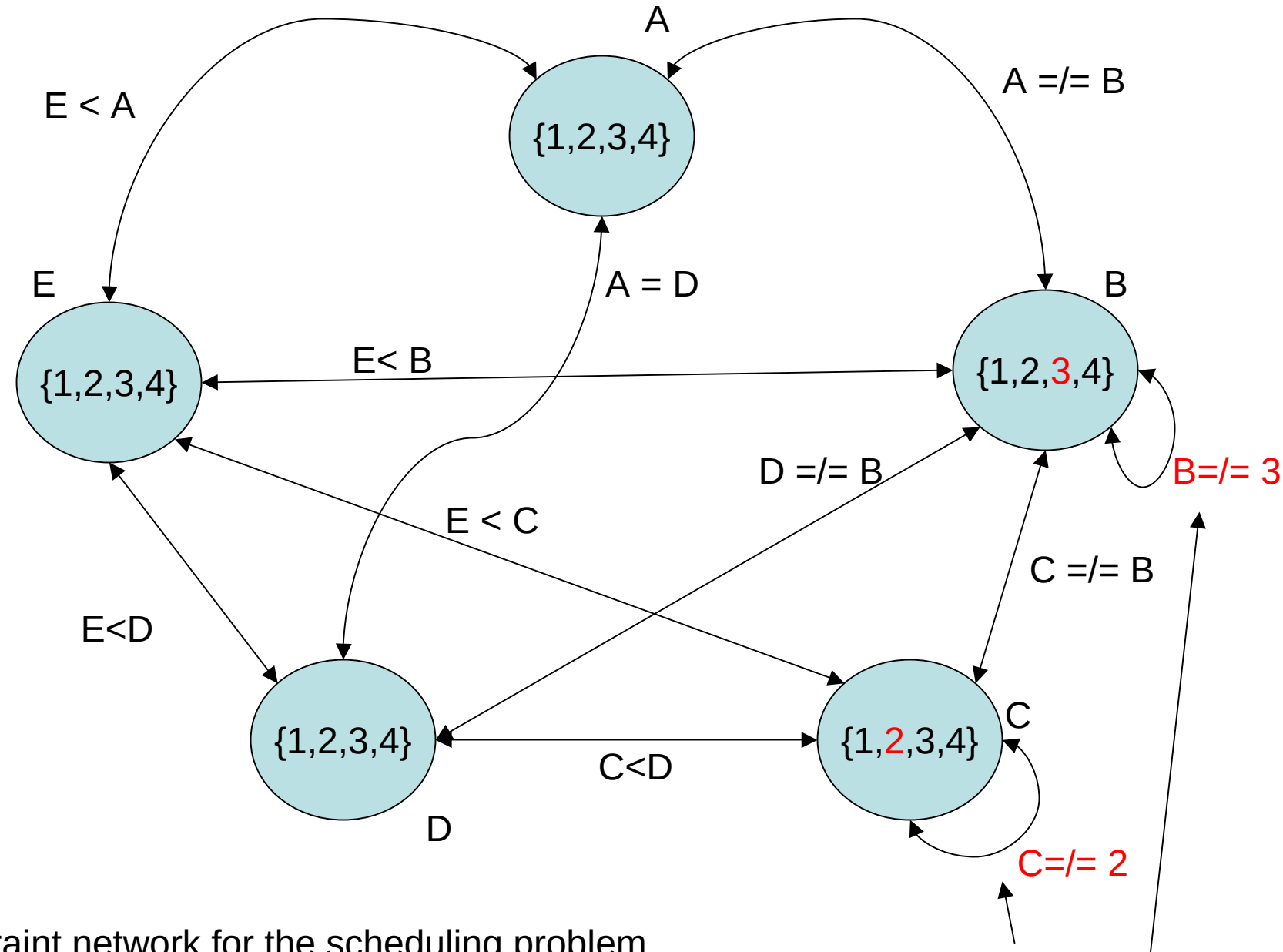
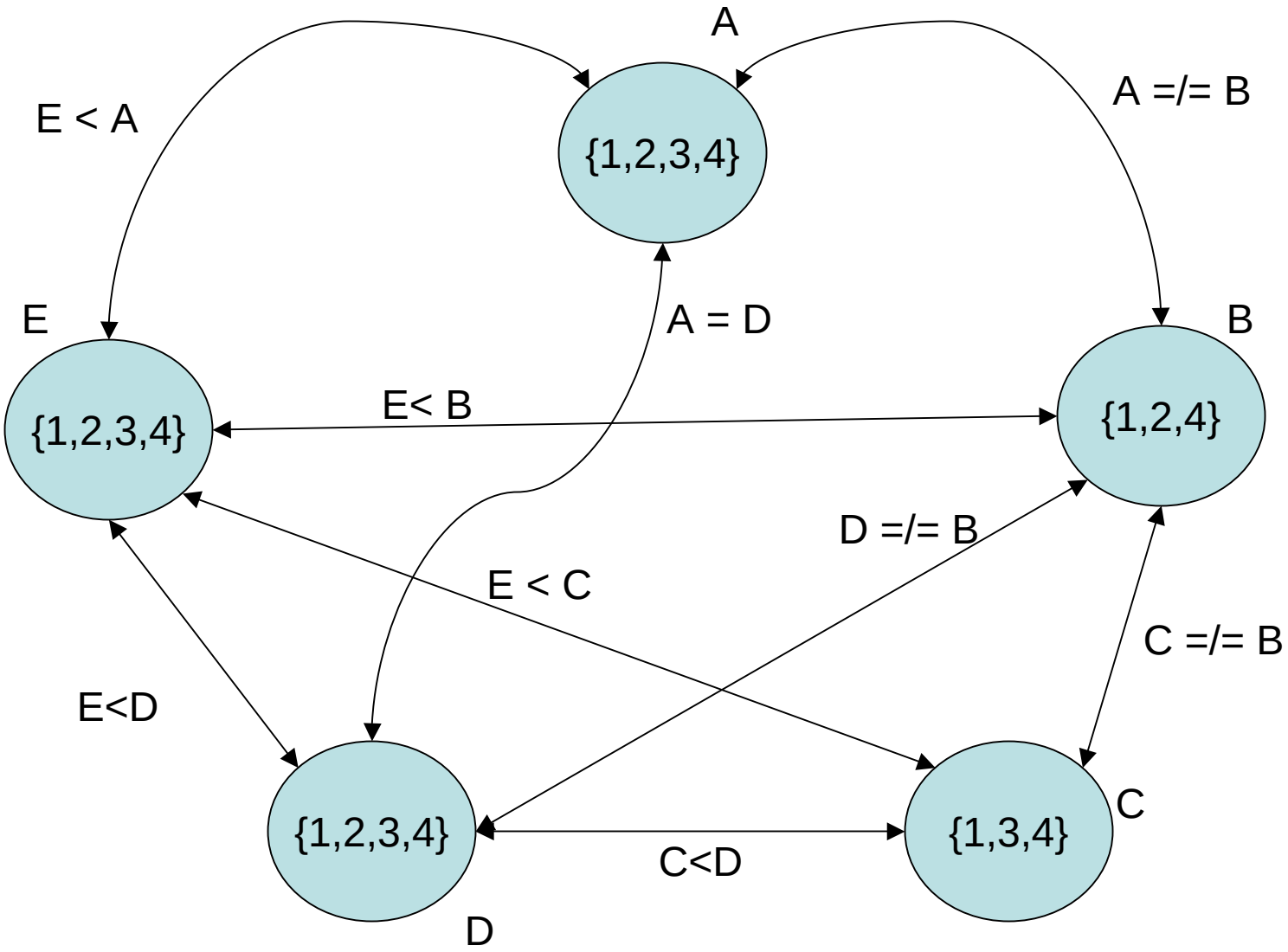
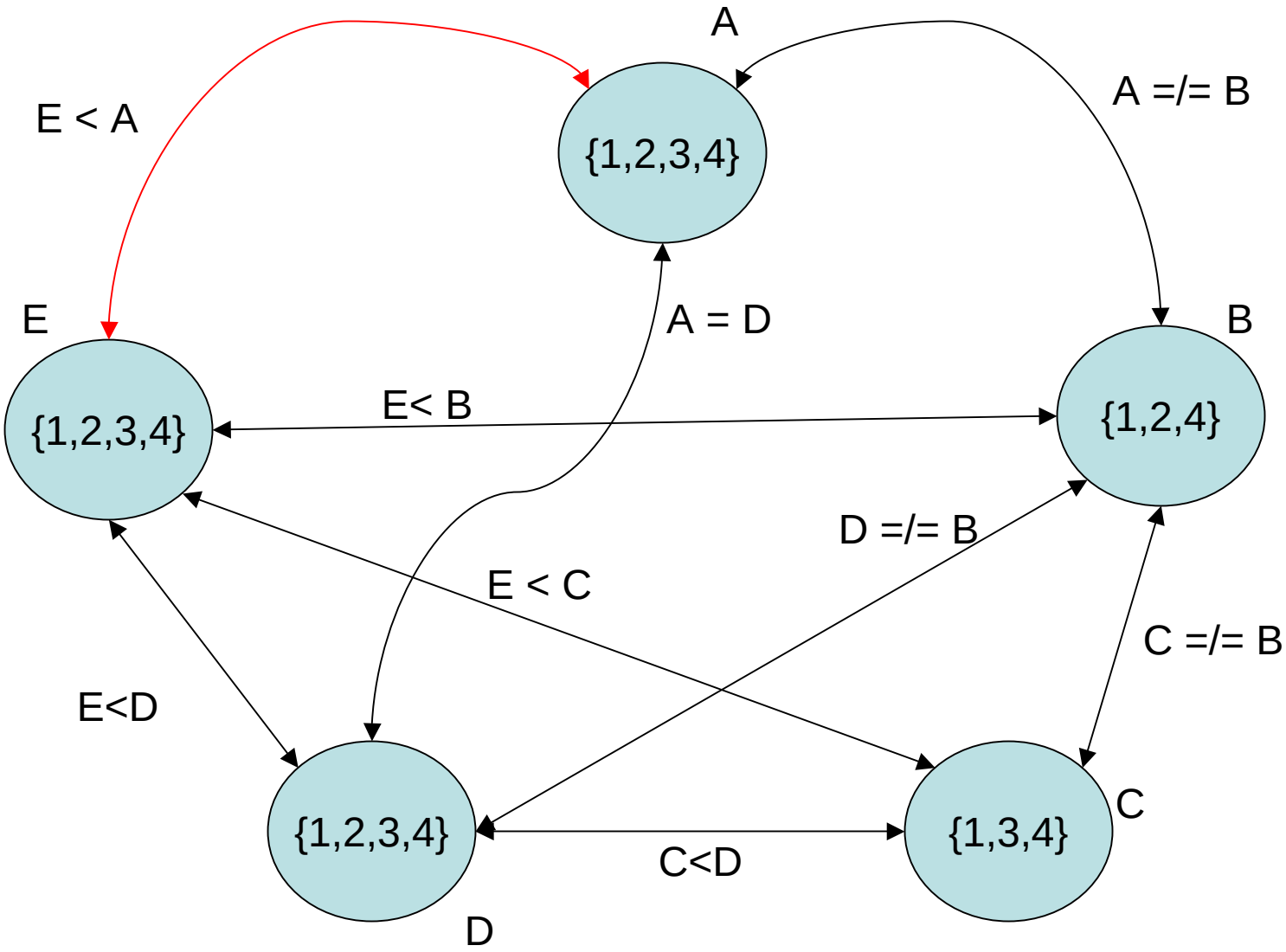


Constraint network for the scheduling problem

Domain consistency

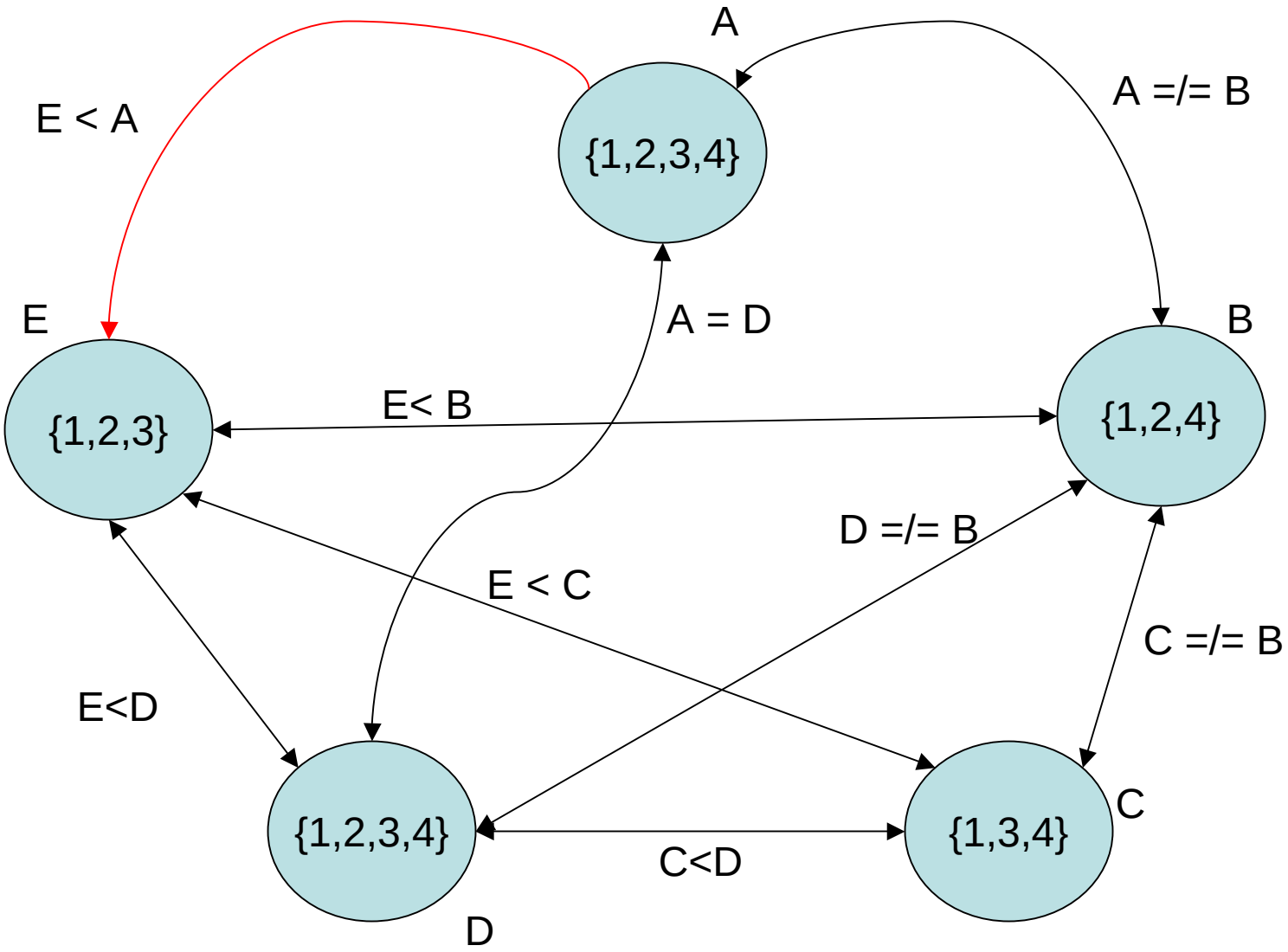


After treatment of domain consistency
The set of TDA (to-do-arcs) are in black (ALL)



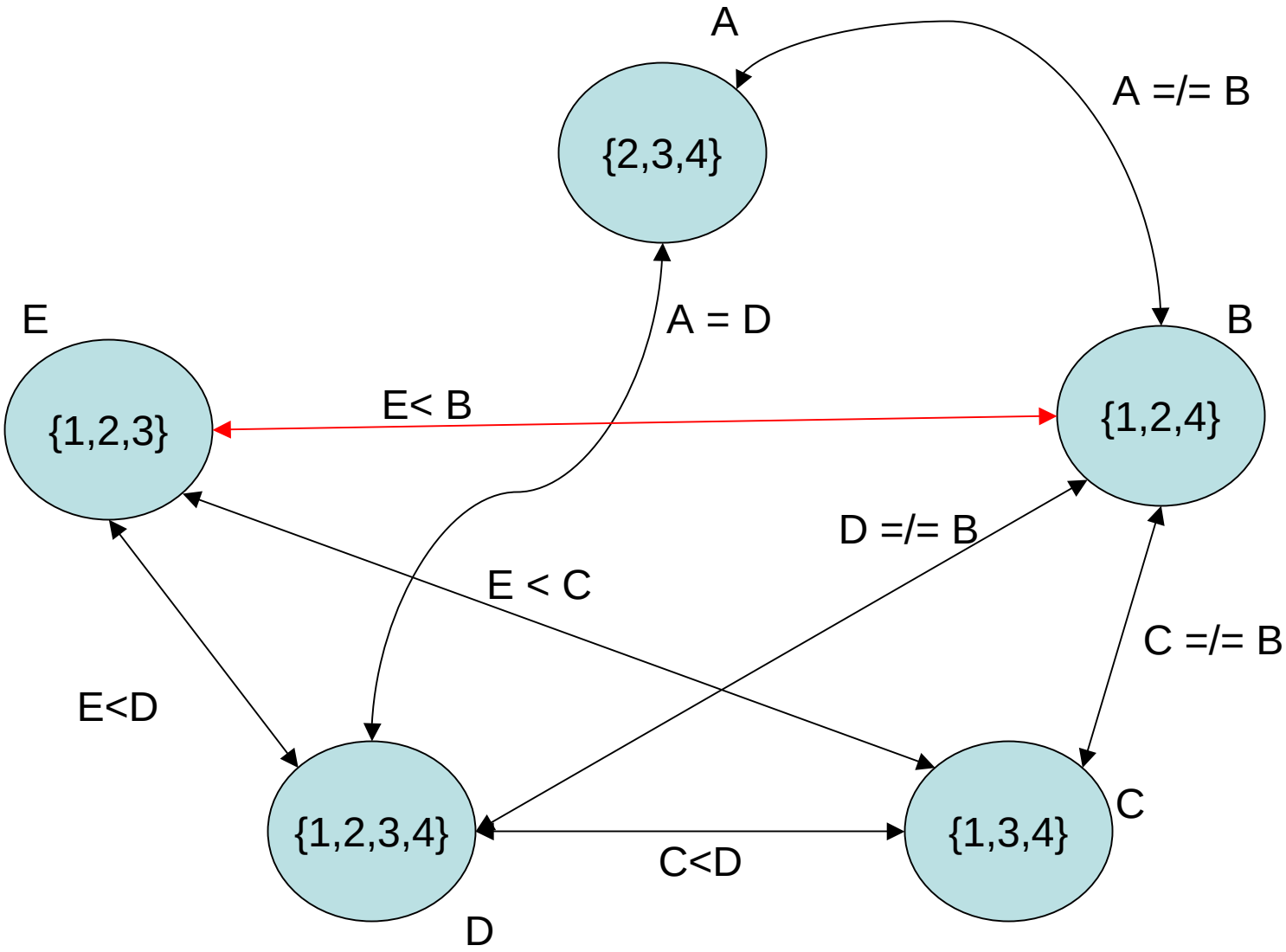
Select <E,A> :

- remove 4 from domain of E
- remove <E,A> from TDA
- add <B,E>,<D,E>,<C,E> to TDA (but they are already in there)



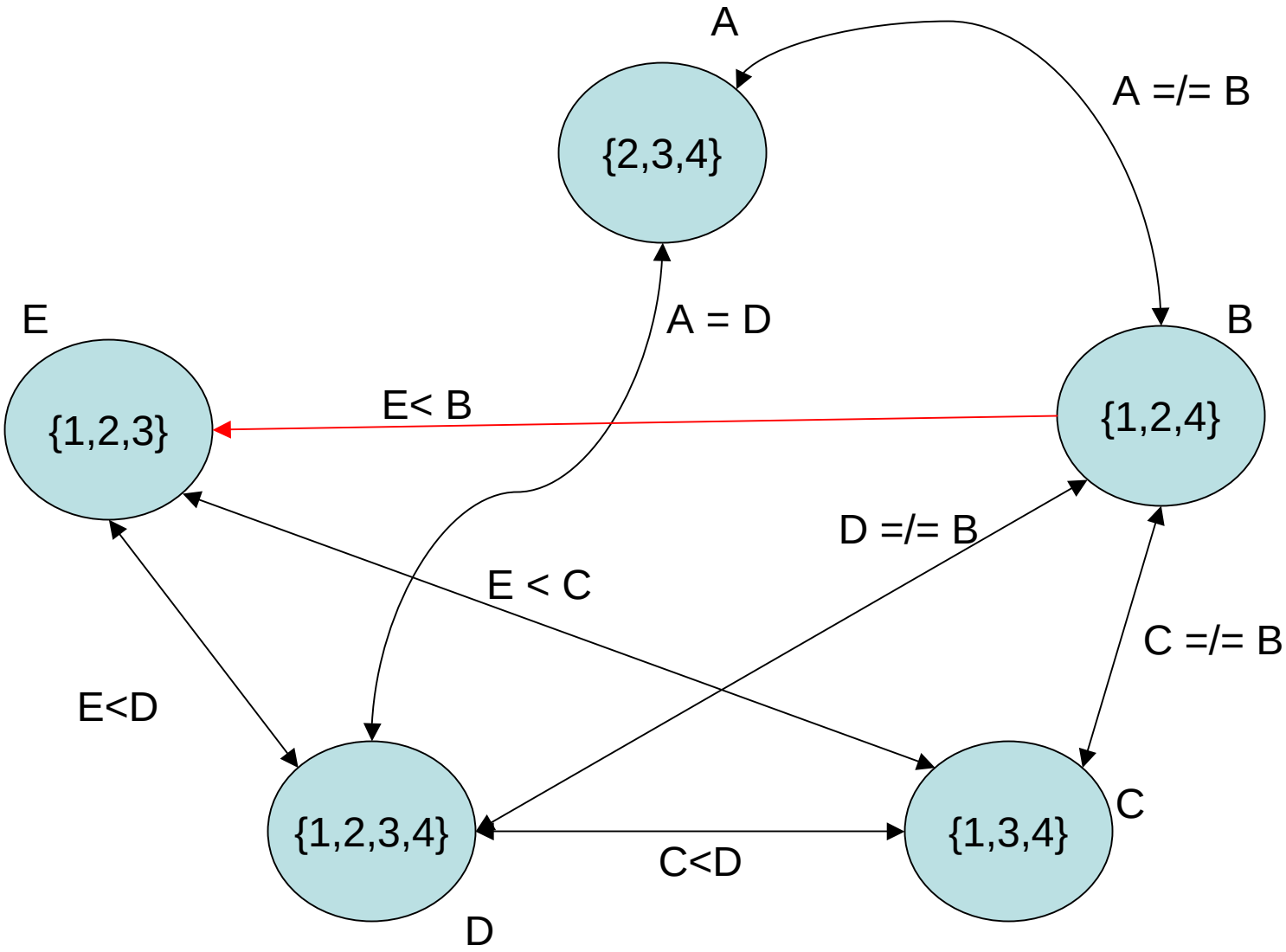
Result of the treating <E,A>

Continue with <A,E>: remove <A,E>, remove 1 from domain of A,
add <B,A>, <D,A> but they are already in TDA



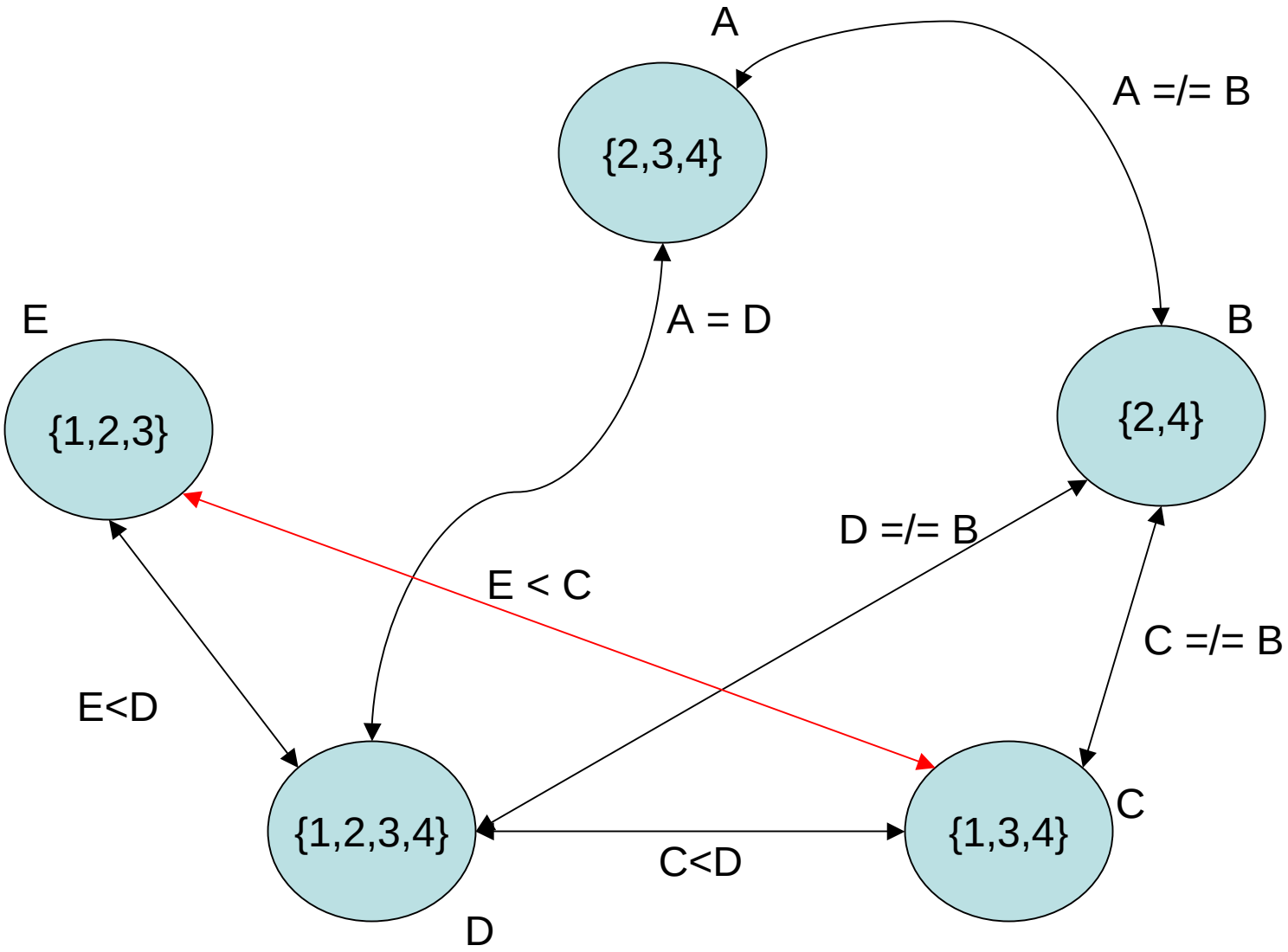
Result of the treating <A,E>

Continue with <E,B>: domain of E does not change, remove <E,B>,
do not add <A,E>

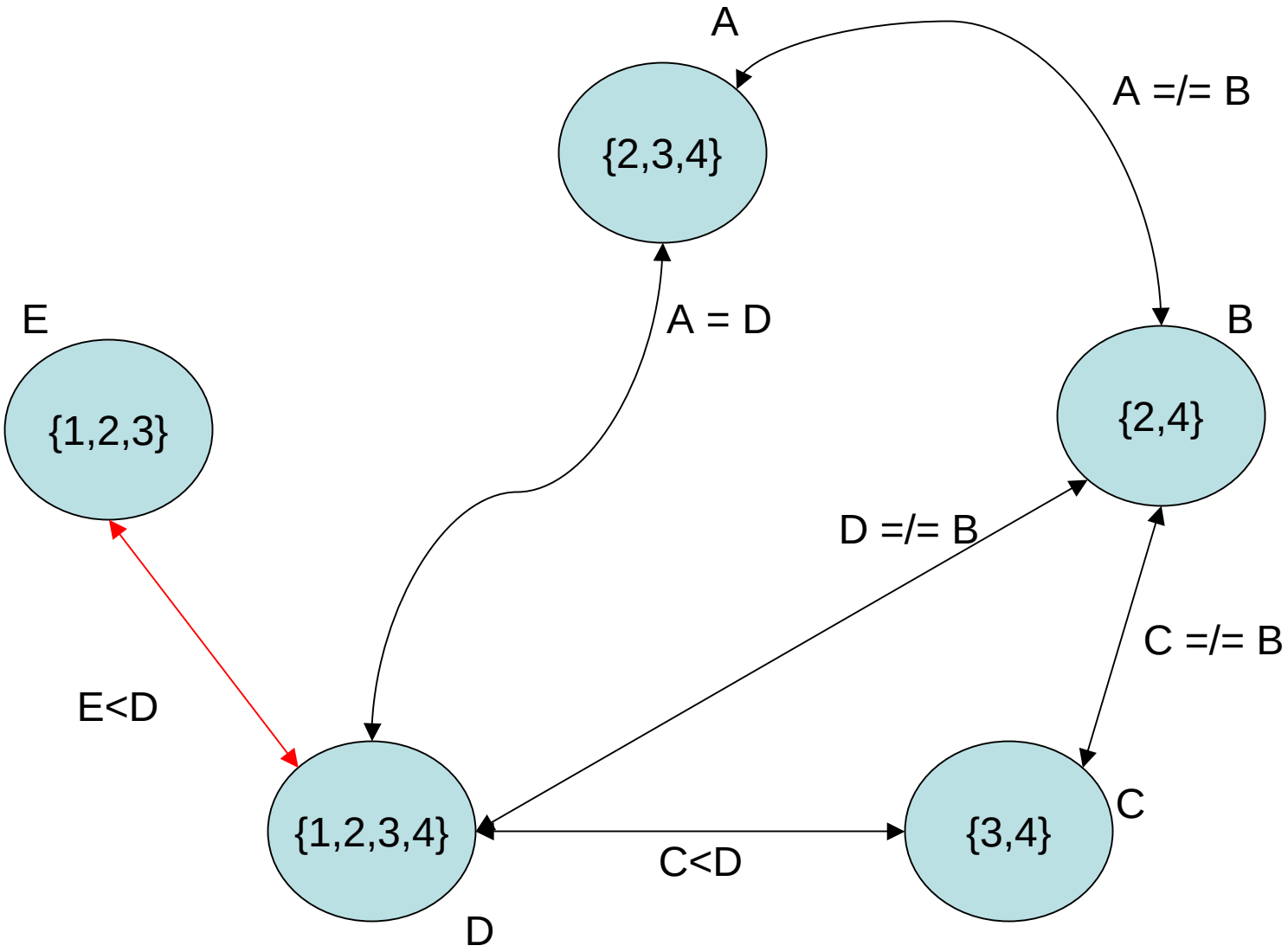


Result of the treating <E,B>

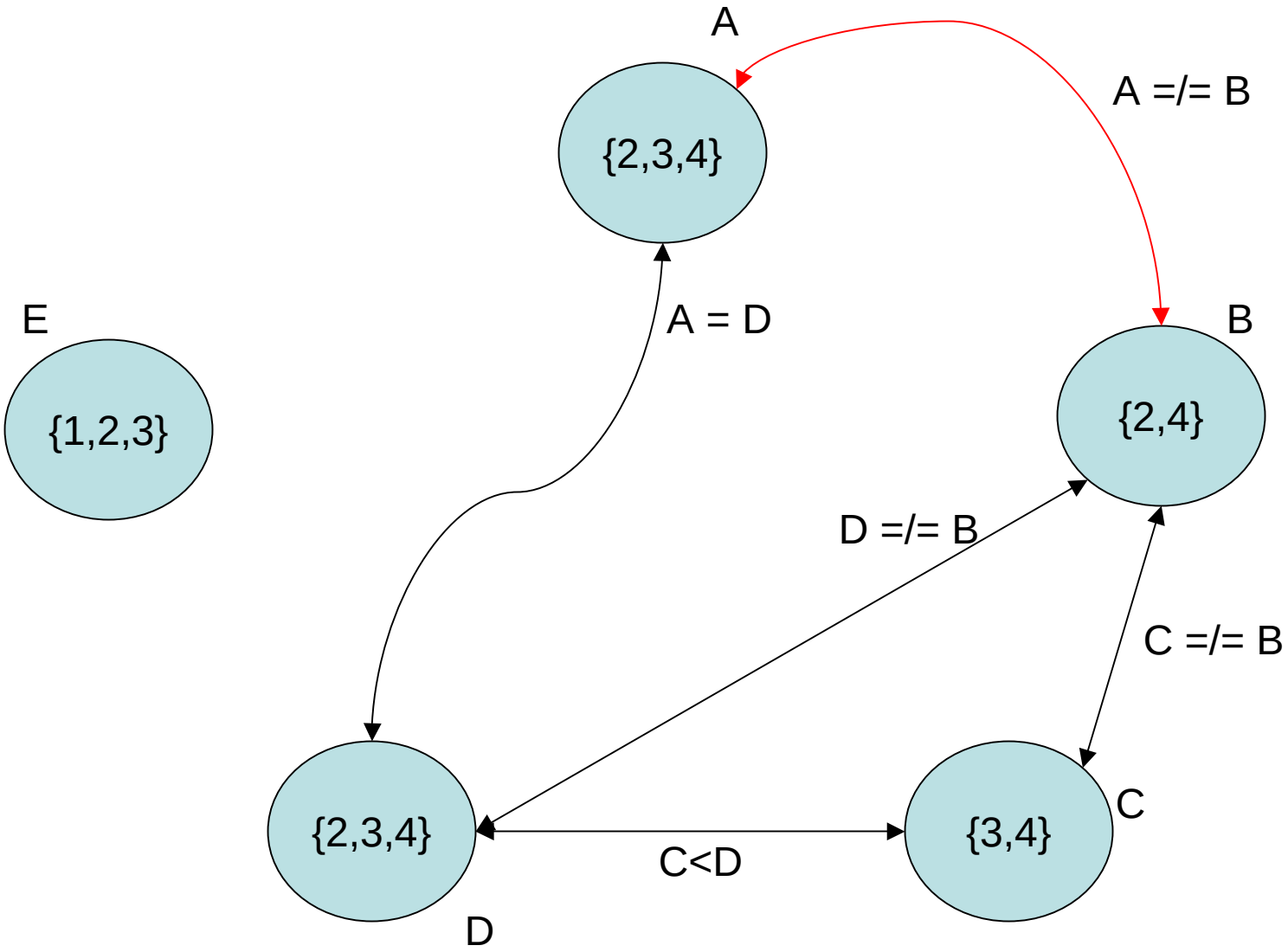
Continue with <B,E>: remove 1 from domain of B, remove <B,E>,
do not add <A,B>



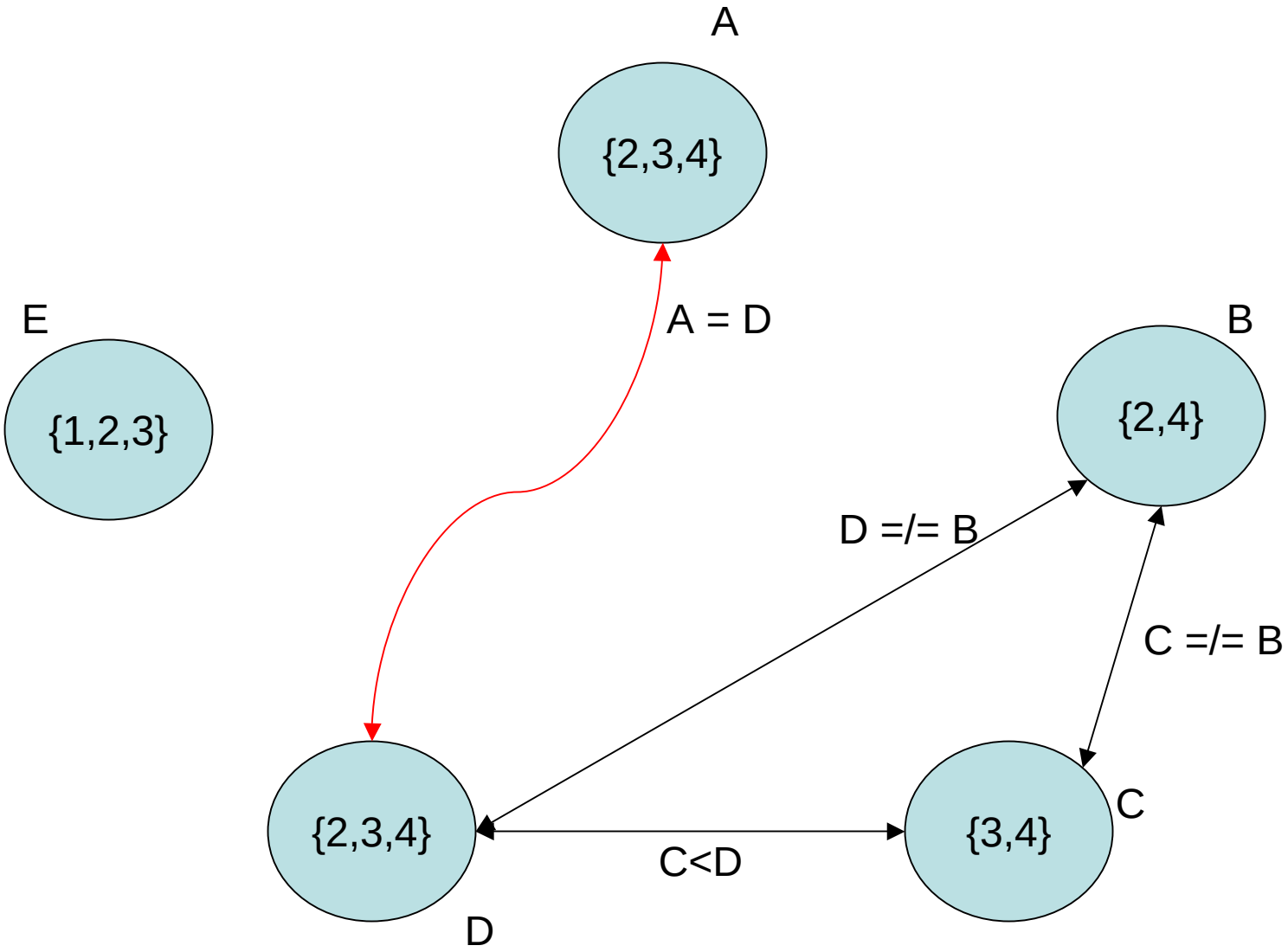
Result of the treating <E,B>
Continue with <E,C> and <C,E> => next page



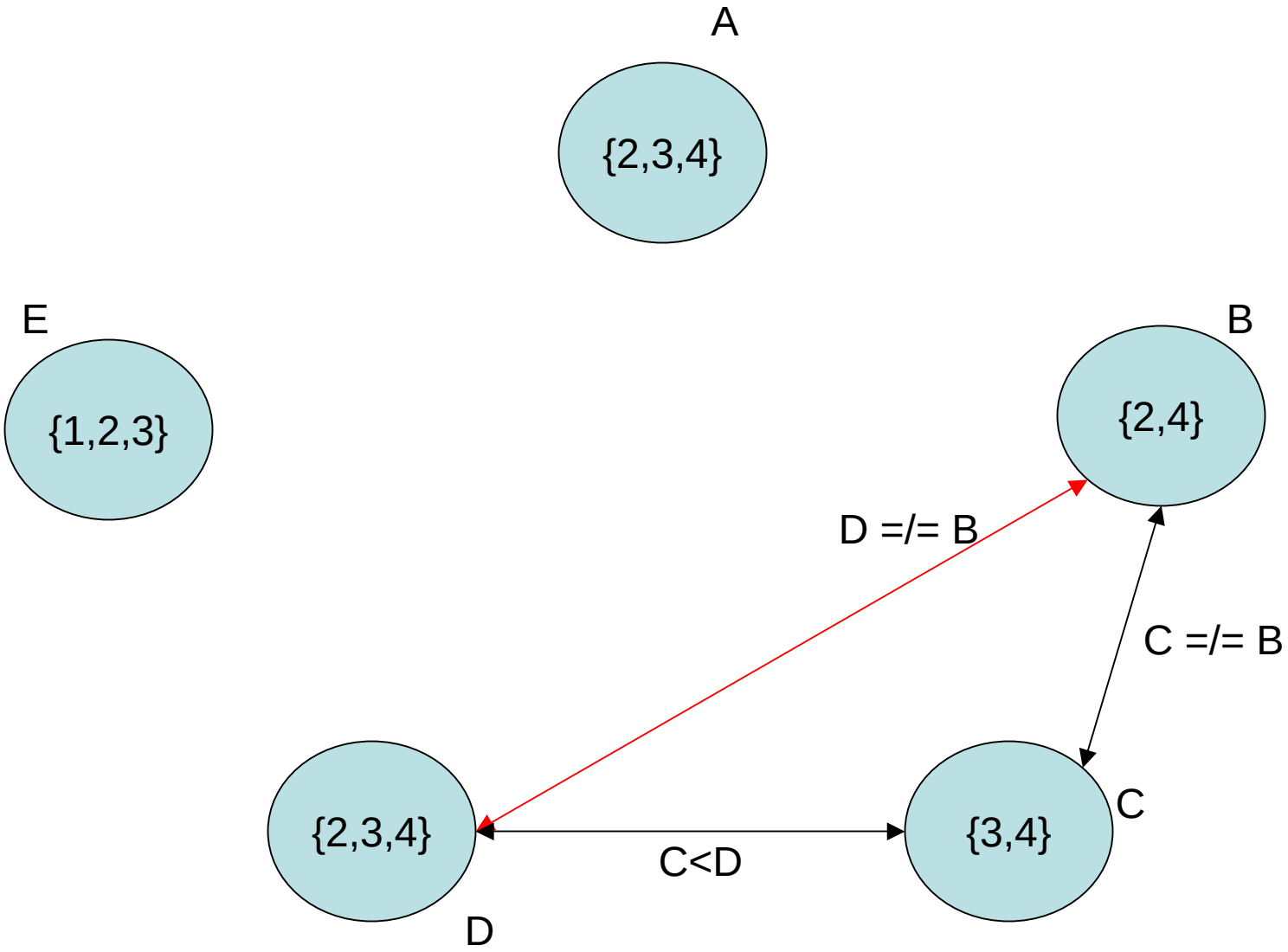
Result of the treating <E,C> and <C,E>
Continue with <E,D> and <D,E> => next page



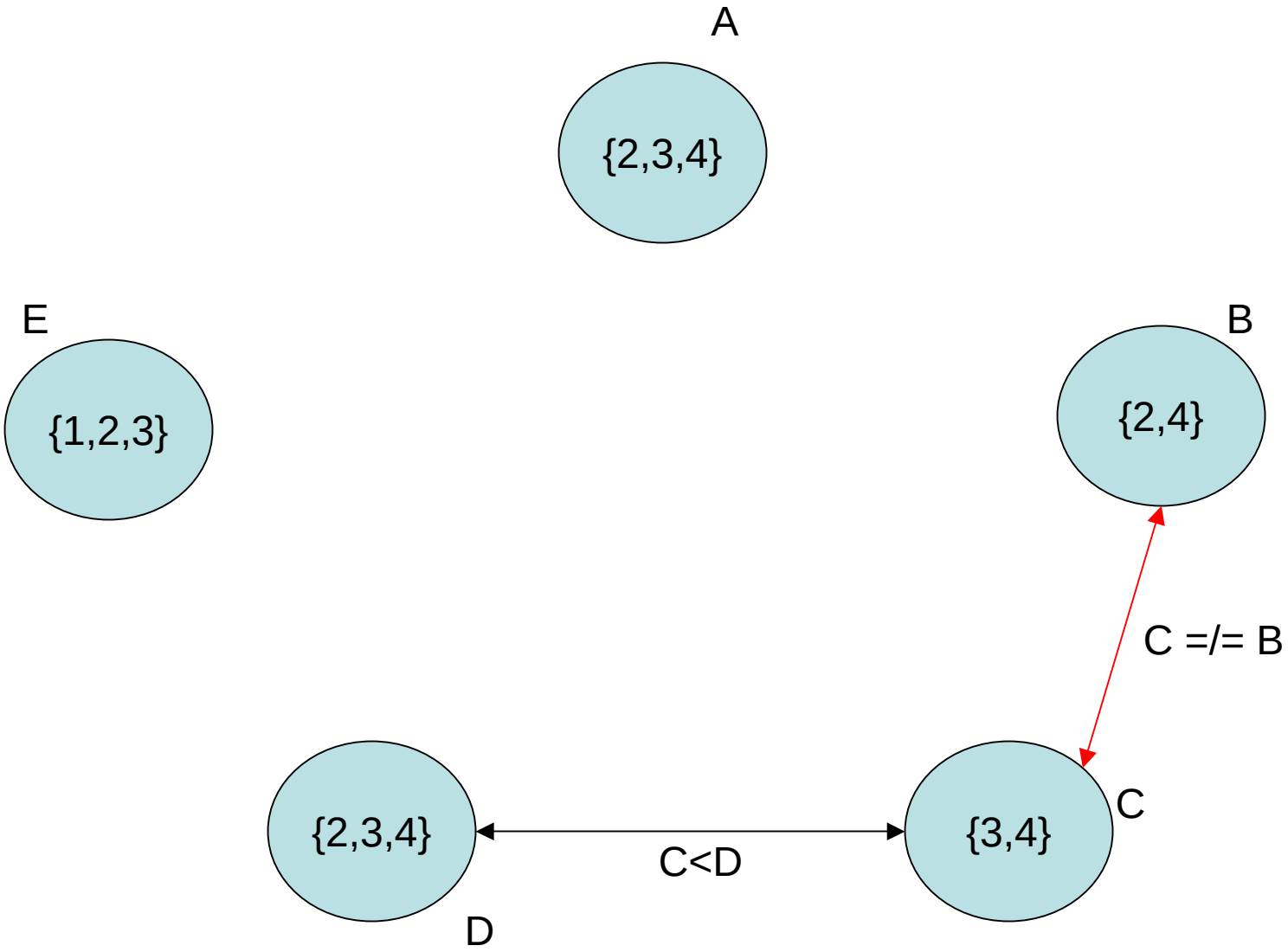
Result of the treating <E,D> and <D,E>
Continue with <A,B> and <B,A> => nothing needs to be changed
=> next page



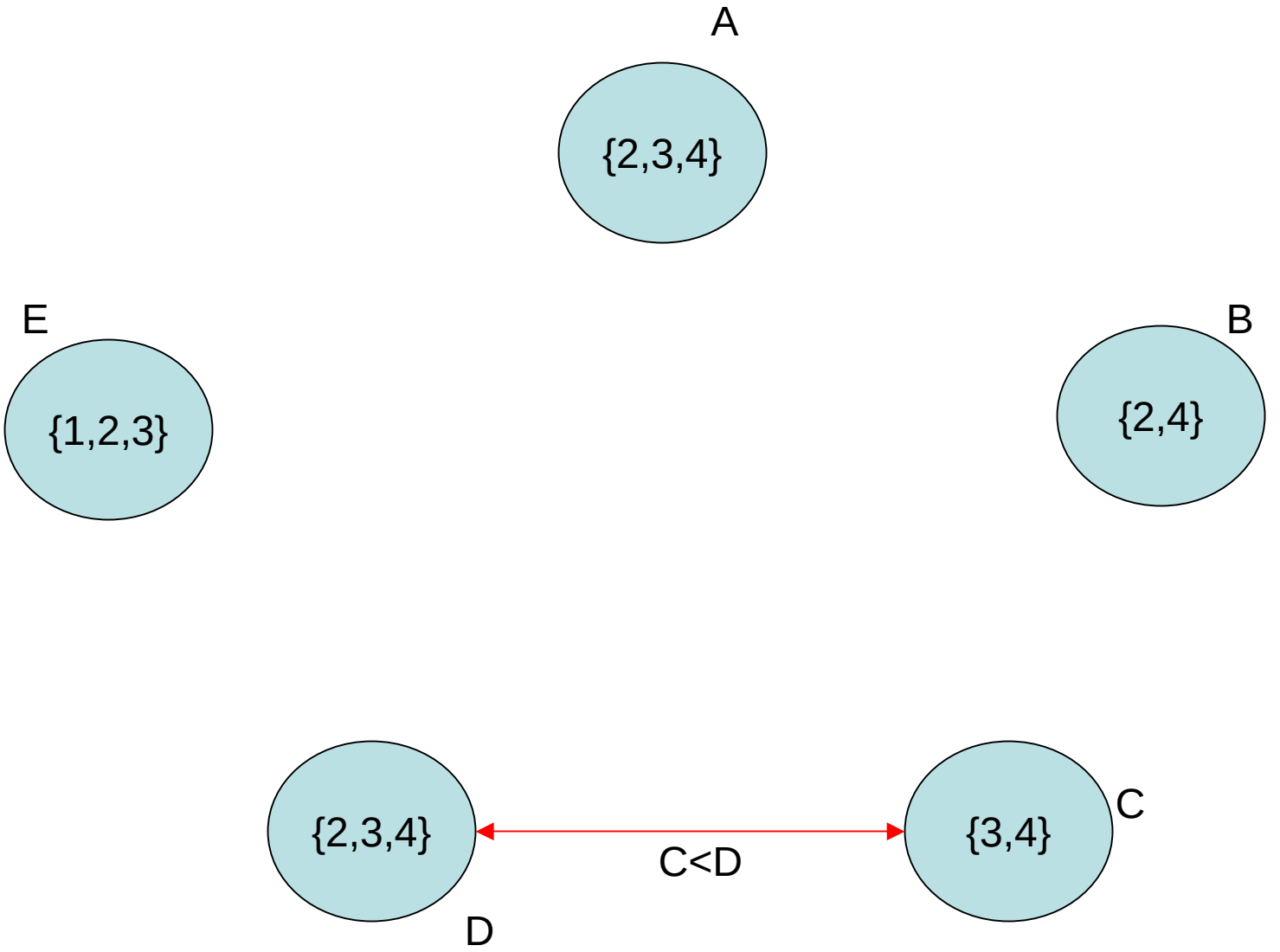
Result of the treating <A,B> and <B,A>
Continue with <A,D> and <D,A> => nothing needs to be changed
=> next page



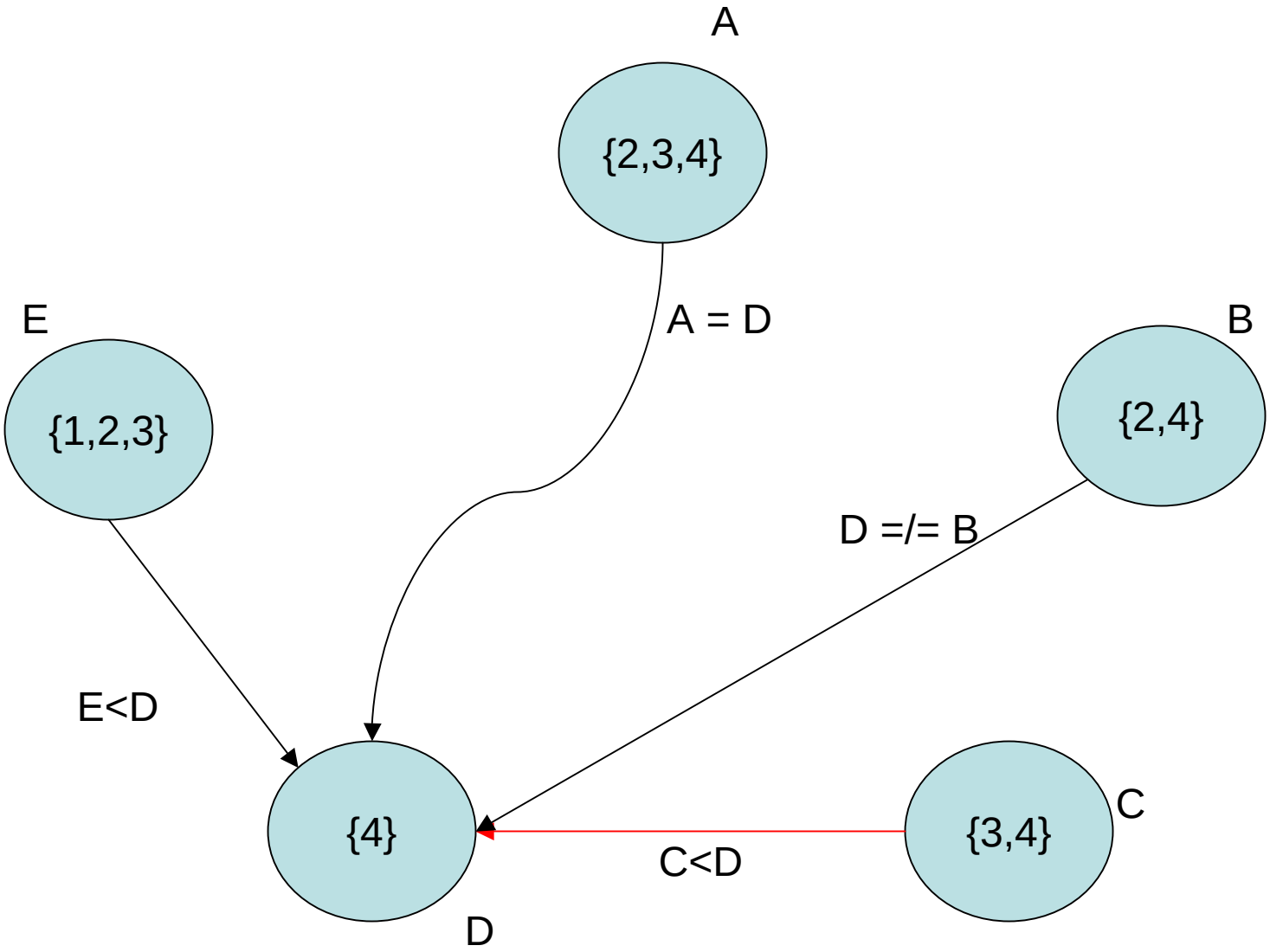
Result of the treating <A,D> and <D,A>
Continue with <B,D> and <D,B> => nothing needs to be changed
=> next page



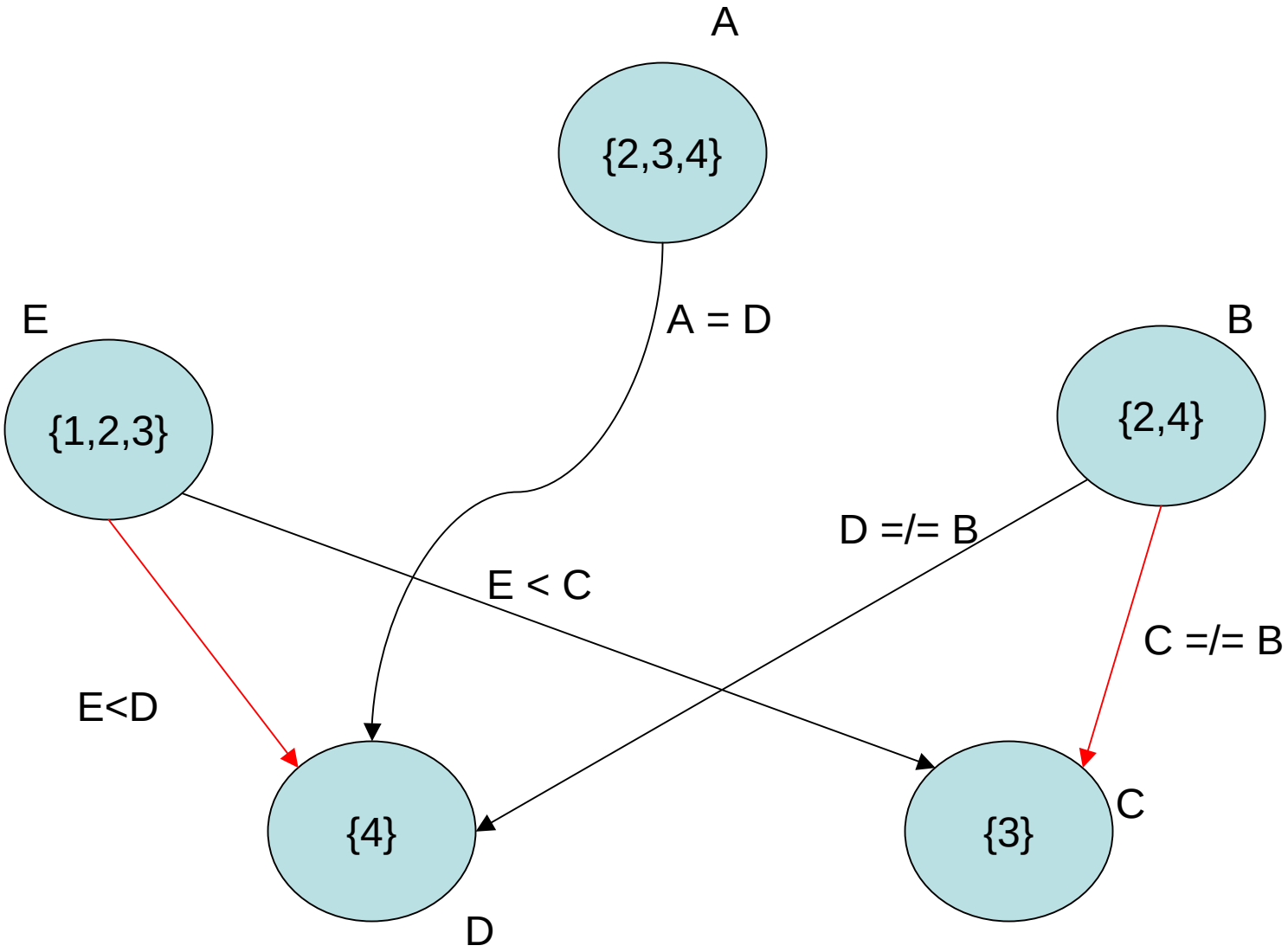
Result of the treating <B,D> and <D,B>
Continue with <B,C> and <C,B> => nothing needs to be changed
=> next page



Result of the treating <B,D> and <D,B>
Continue with <D,C>: remove 2, 3 from domain of D
add <A,D>, <B,D>, <E,D> to TDA

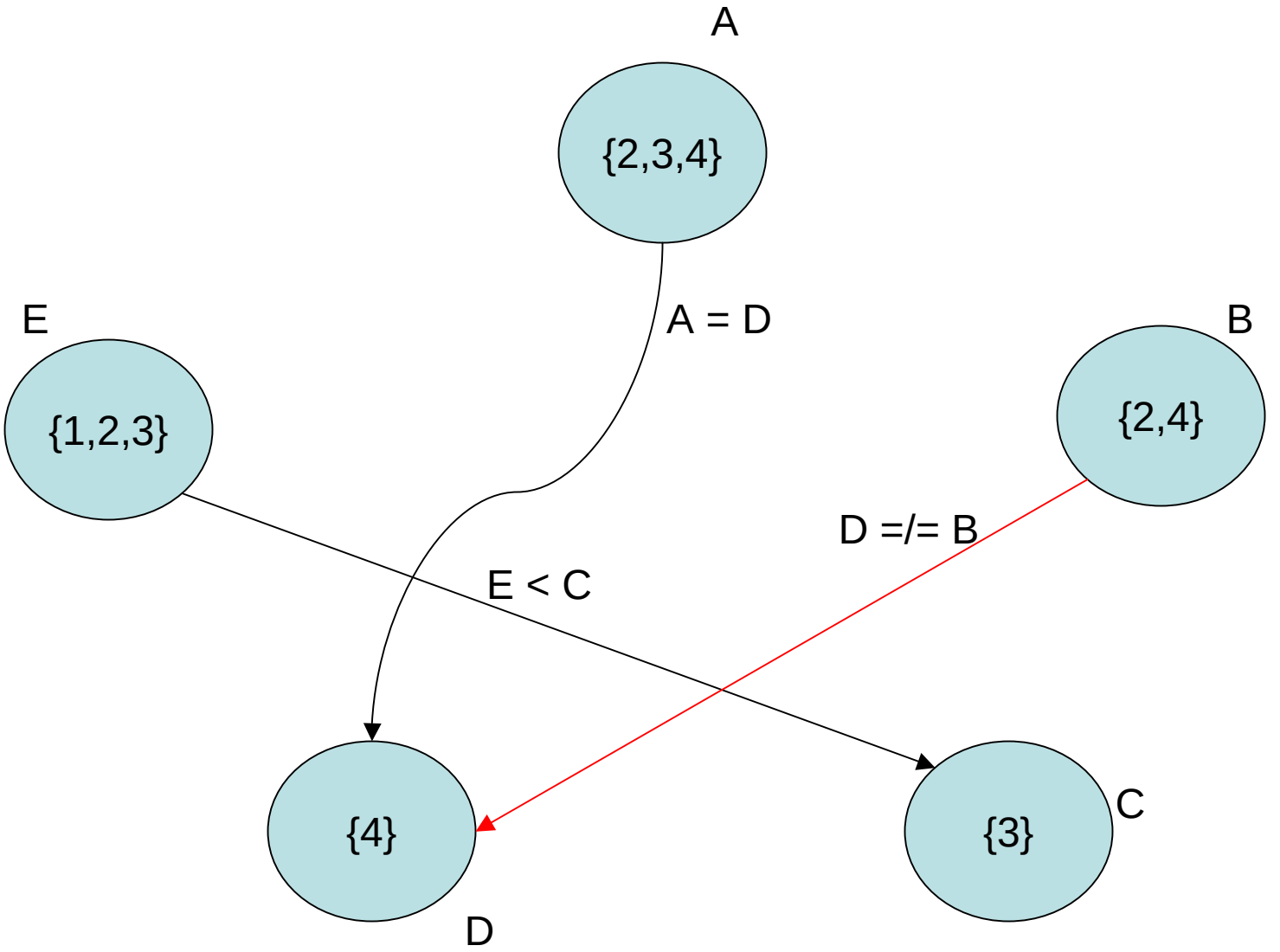


Result of the treating <D,C>
Continue with <C,D>: remove 4 from domain of C
add <B,C>, <E,C> to TDA

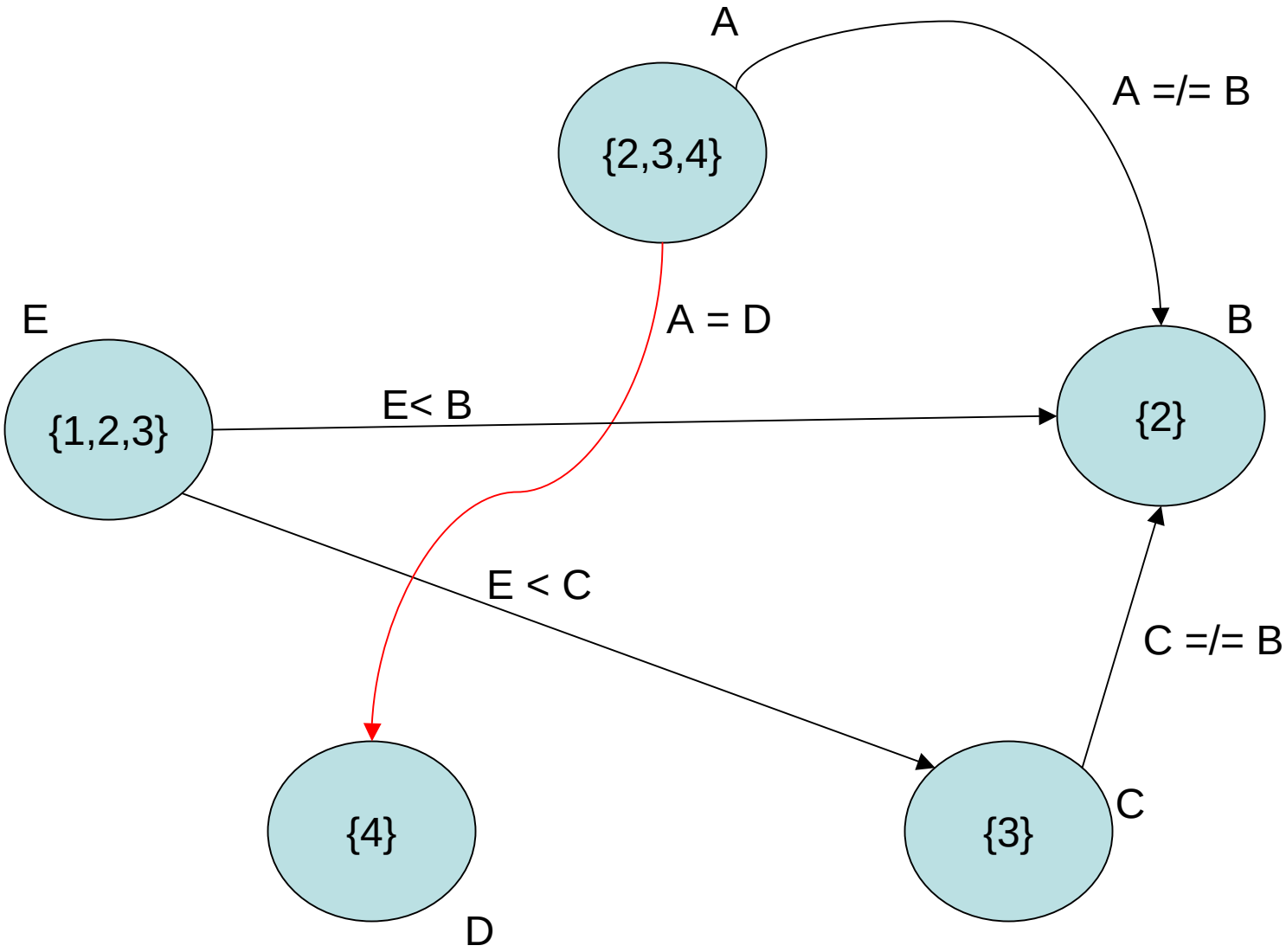


Result of the treating <C,D>

Continue with <B,C>, <E,D> resulting in removing the arcs from TDA

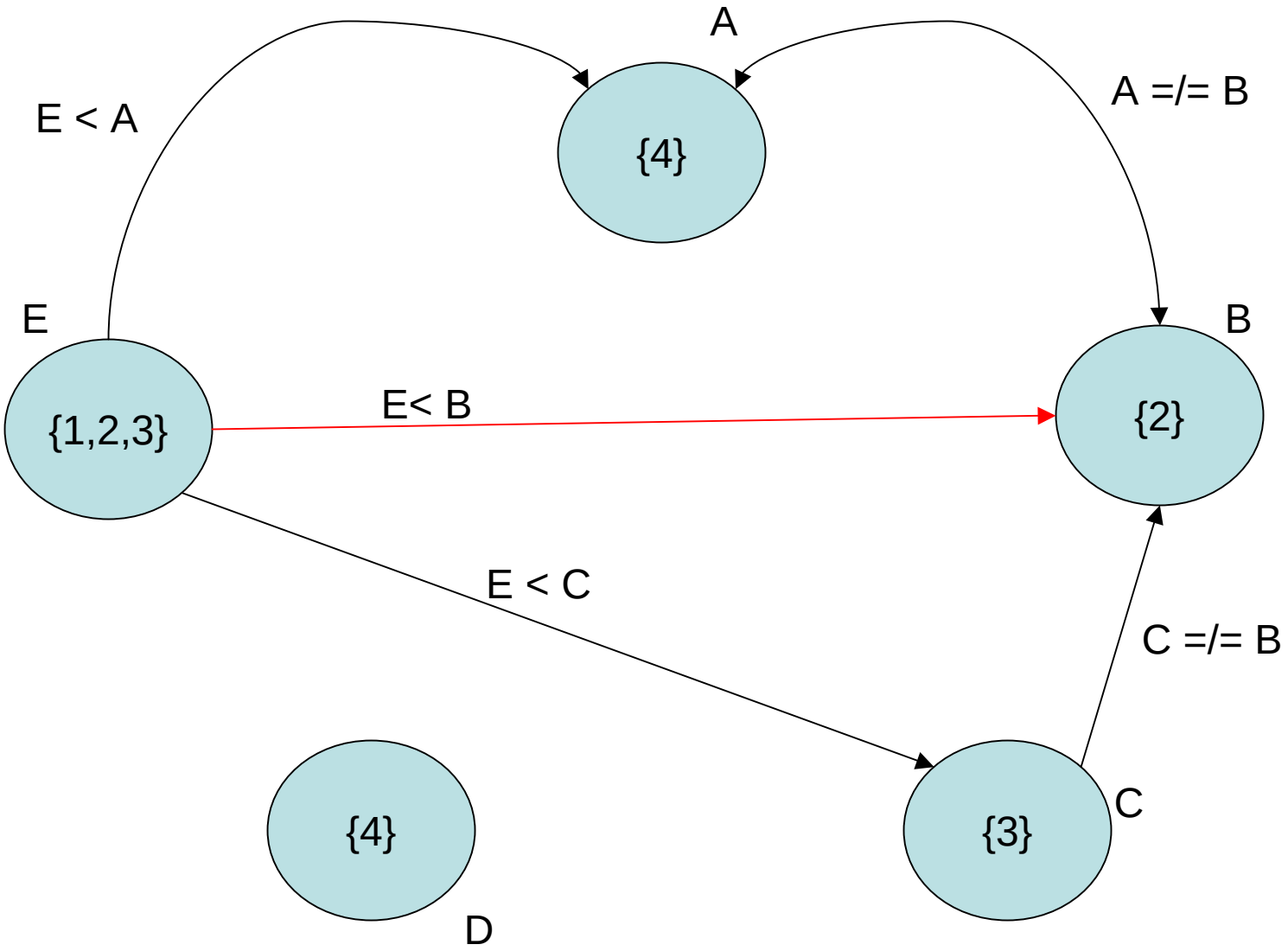


Result of the treating <B,C> and <E,D>
Continue with <B,D> resulting in removing 4 from domain of B
and adding <A,B>, <E,B>, <C,B> back to the TDA

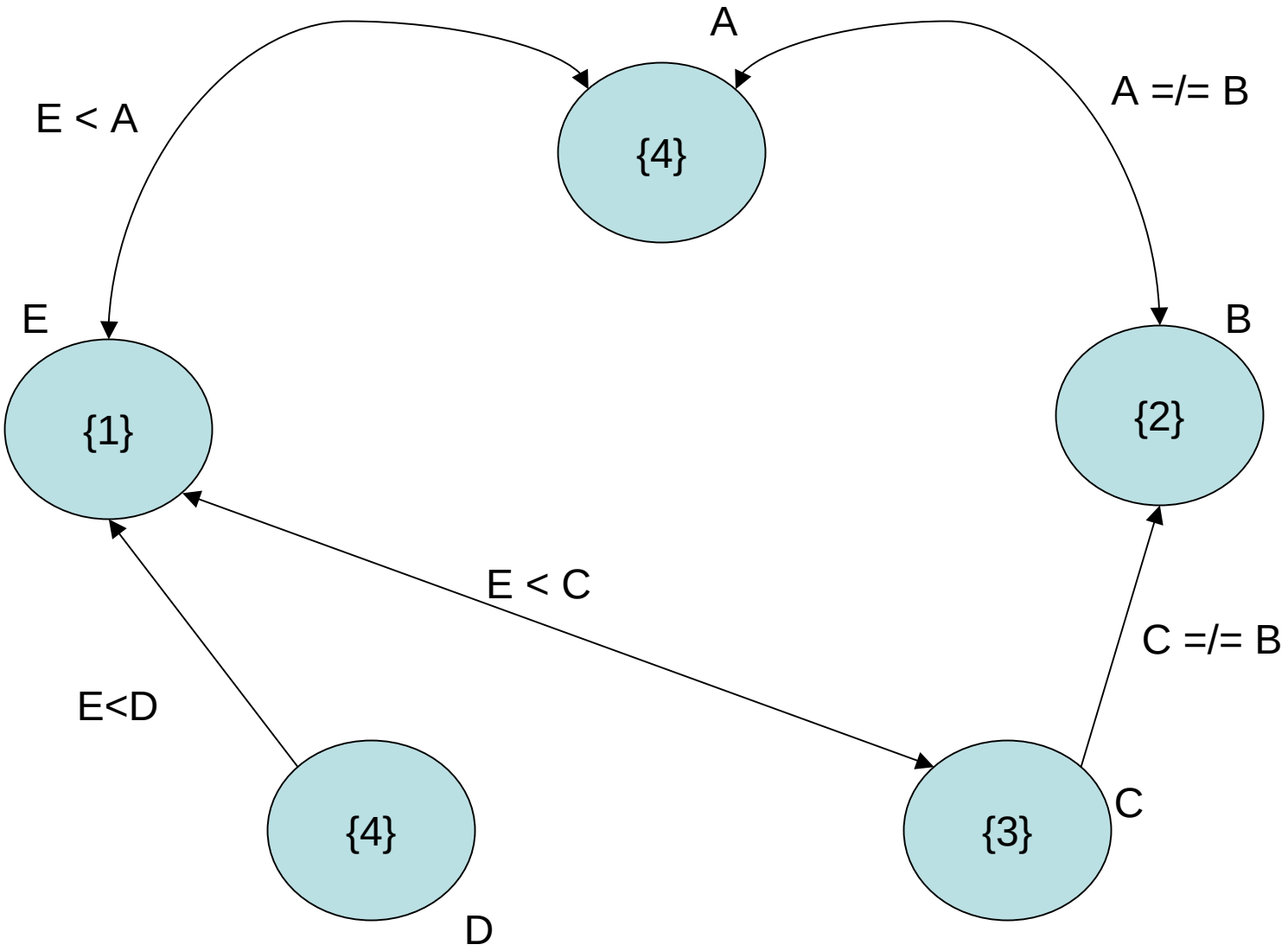


Result of the treating <B,D>

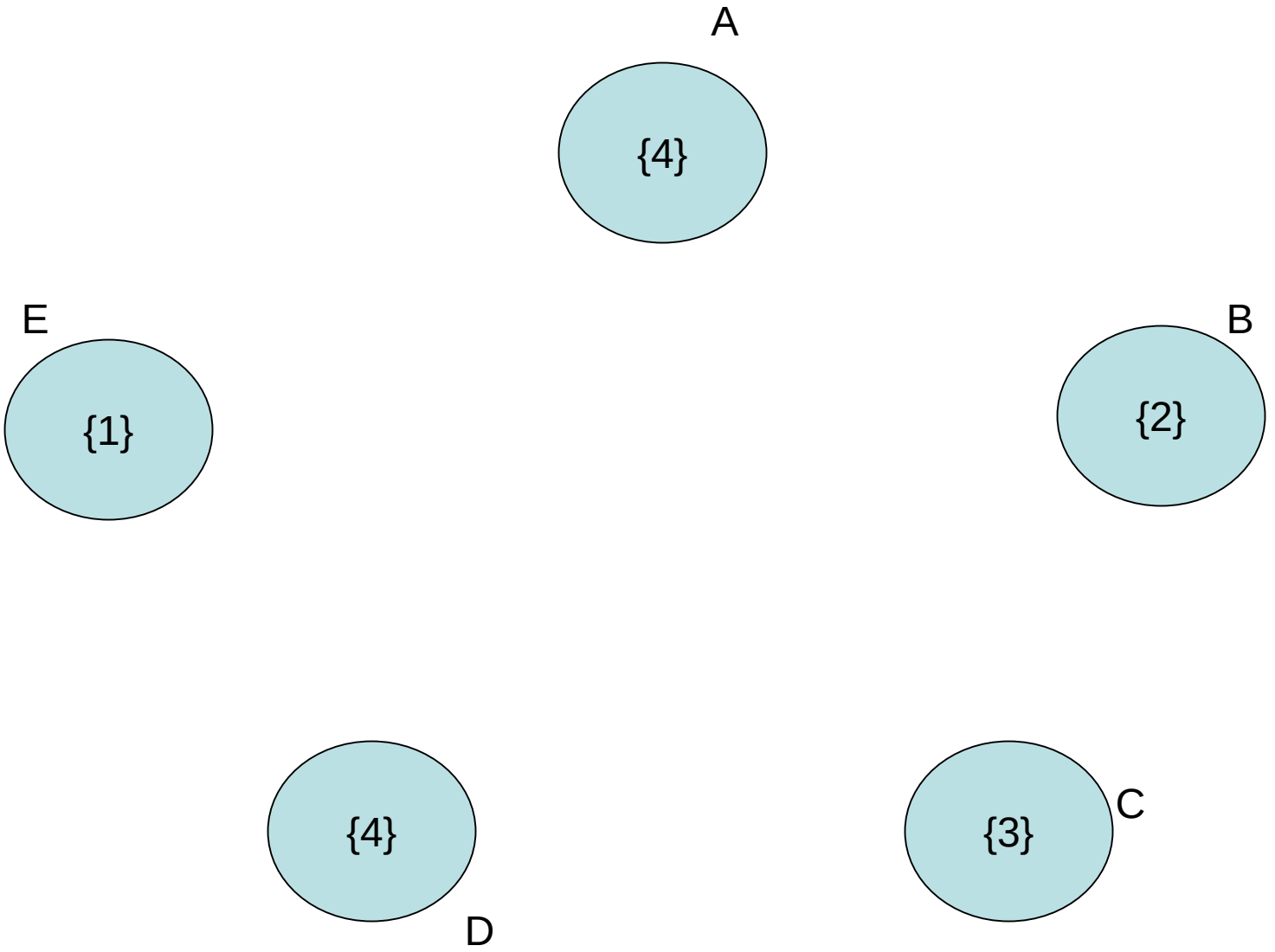
Continue with <A,D> resulting in removing 2,3 from domain of A
and adding <B,A>, <E,A> back to the TDA



Result of the treating <A,D>
Continue with <E,B> resulting in removing 2,3 from domain of B
and adding <D,E>, <C,E>, <A,E> back to the TDA



Result of the treating <E,B>
After this step, no reduction of the domain need to be made
The arcs get removed from TDA until there is no more left => next page



Result of the the algorithm
A solution: A=4, B=2, C=3, D=4, E=1