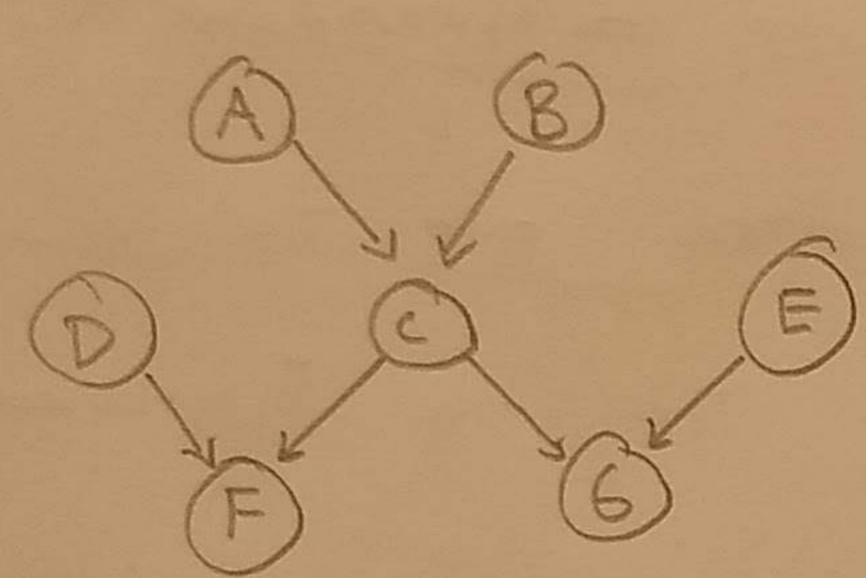
c) ii. Earlier part (i) showed that if 6 | 462 I-equivalent => 62862 have same skeleton

Suppose 61 & 62 are I equivalent, Here I show 6, & 62 same immoralities must have

Proof! For each node Xi, consider its Markov boundary XBI. There are 2 sources of immoralities

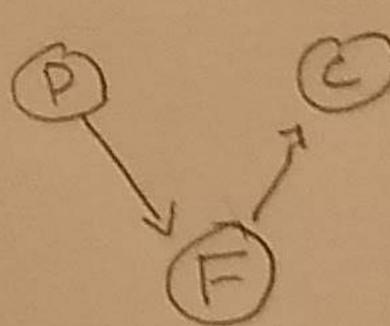
1. Multiple parents

2. Children w/ other additional parents



Changing direction of parents induces conditional indep & removes pairwise indep => violating I-equivalence eig. Before A BIC After A BIC ALBIC

Similarly, changing direction of (shared) children violates indep



cig. Before DEC DEC After DE DECIF =) For each node, its Markov boundary cannot change immoralities

=) If each Markov boundary can't change immoralities, 6,1862 must

immoralities Lave same