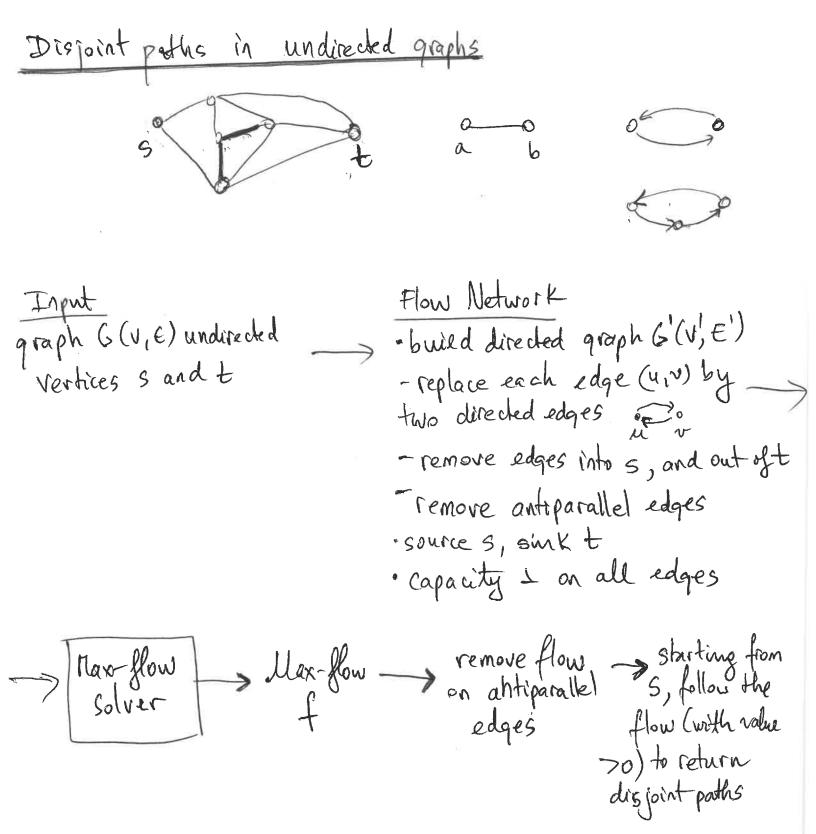
## Disjoint -publis in a directed graph Flow Network Input -graph 6(ViE) directed graph G(V,E) directed - sources and sink t vertices s and t - capacity I on all edges Max-flow max-flow starting from S, follow the solver flow (with value >0) to return disjoint paths Rtanalysis Ford-Fulkerson => RT= O(1f\*1.E) 1f\* | \le | VI-2 (V)

RT= 0(V-E)



example graph G'(V', €') graph G(V,E) - remove antiparallel edges graph 6 - add capacity 1 Not correct overlapping edges in the resulting paths! remove flow on antiparallel J= nim {f(u,v), f(v,u)} J=1 graph G - edge disjoint paths in G