



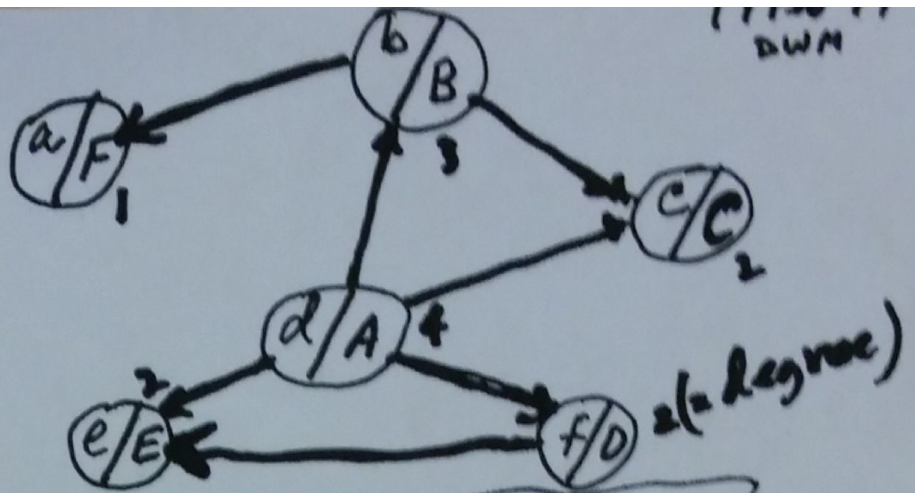


CSE 7350/5350

Help Notes:

Re: Example of  
goal of problem  
3 of HW Set #2.

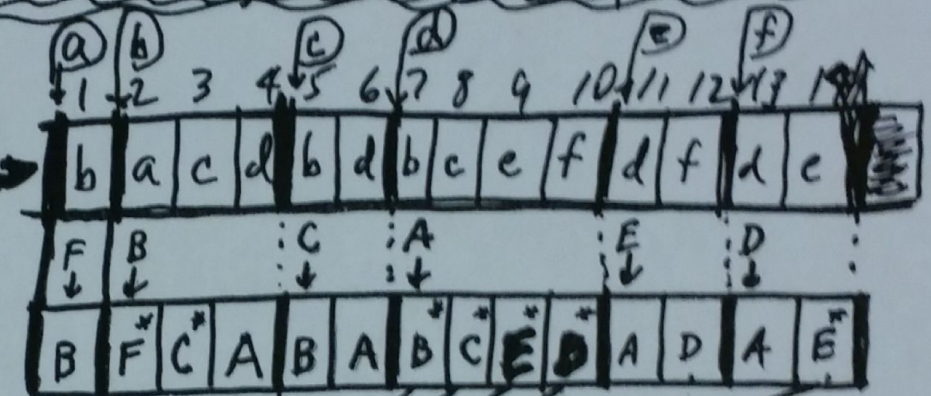
D. W. Matula



## Reordering Packed Edge List In-Place

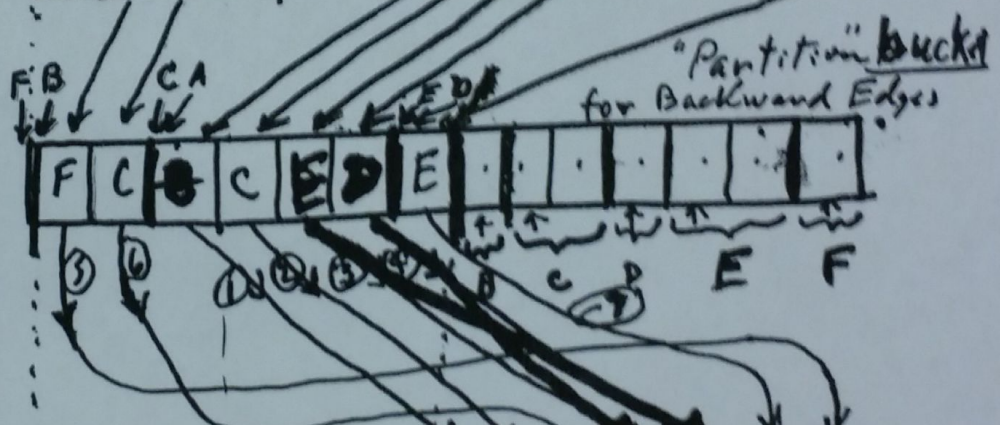
START  
ORIGINAL EDGELIST

Rename  
(for illustration)



① Identify directed  
forward edges, and  
compress and count  
backwards edges and partition edges

|                      | A | B | C | D | E | F |
|----------------------|---|---|---|---|---|---|
| # deleted            | 0 | 1 | 2 | 1 | 2 | 0 |
| backwards edge count | 4 | 2 | 0 | 1 | 0 | 0 |
| forward              | 4 | 2 | 0 | 1 | 0 | 0 |



② Unload forward  
edge buckets in  
[A, B, C, D, E, F] order  
into backward edge  
buckets (e.g. Radixsort).

③ Decompress left  
into full size buckets  
in new order

END

NEW ORDER EDGELIST

