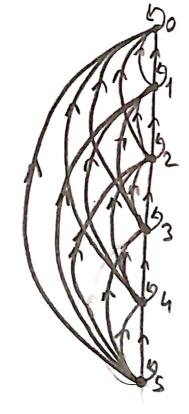
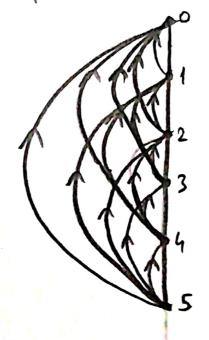
$e = \left\{ \begin{array}{l} (0,0), (1,1), (2,2), (3,3), (4,4), (5,5), (1,0), (2,0), (3,0), \\ (4,0), (5,0), (2,1), (3,1), (4,1), (5,1), (3,2), (4,2), (5,2), (4,3) \end{array} \right.$

First stops



Second Steps

Remove self loop (Reflexive)



Third steps Remove transitive relation

Four Steps

the terminal elevants?

012345

This is the basse diagram.

6iven: ({{1}, {2}, {4}, {1,2}, {1,4}, {2,43, {3,4}, {1,3,43, {2,3,4}, {2,43, {2,43,4}, {1,3,43, {2,3,43,4}}}.

a) The maximal elements are not have any elements above it.
maximal elements = {1,2}, {2,3,4}, {1,3,4}

b) The minimal elements are not have any elements below it.
minimal elements = 5.13 152} 1143

c) The greatest element only exist is there one maximal element and is equal to that maximal element.

greatest element = Does not exist.

d) The upper bounds of { { 23}, { } 43}; upper bounds = {2,43,52,3,43

e) The loost upper bound of \$5233, 156 4 33; leost upper bound=\$2.43 Becouse \$2,3,43.is obove \$2,43

F) all lower bounds of { \$1,3,433, { £2,3,43}, lower bounds = { 4}, \$3,43,

because . 53, 43 is above 543.