

FACTS:

AD, AE

BF, BG

CH, CJ, CK

POTENTIAL LP:

MAXIMIZE  $AD + BF + CH$

G.A.  
M1:  $AD + CK + BG = 0$

$a_1: AD + CH - AE - CJ \leq 2$

$a_2: BF + AD - BG - AD \leq 1$

$a_3: BG + CJ - BG - CK \leq 1$

$a_4: AE - AD \leq 2$

$a_5: CH - CJ \leq 5$

ALL FREE!

$\Delta$

SOLUTION:

NOT:  $AD = -2$

$AE = 0$

$BF = 4$

$BG = 3$

$CH = 4$

$CJ = 0$

$CK = -1$

$h(DFH) = 6$

SEQ LP:

TMF:  $B = G$  is GOAL

MINIMIZE  $2Y_1 + Y_2 + Y_3 + 2Y_4 + 5Y_5$

AD:  $X_2 + Y_4 - Y_1 - Y_2 = 1 - 1$

AE:  $Y_1 - Y_4 = 0 - 0$

BF:  $0 - Y_2 = 0 - 1$

BG:  $Y_2 + Y_3 - Y_3 = 1 - 0$

CH:  $0 - Y_1 - Y_5 = 0 - 1$

CJ:  $Y_1 + Y_5 - Y_3 = 0 - 0$

CK:  $Y_3 - 0 = 1 - 0$

$Y_1 \geq 0$

SOLUTION:

$Y_1 = 1$

$Y_2 = 1$

$Y_3 = 1$

$Y_4 = 1$

$Y_5 = 0$

$h = 6$