

Multiobjective optimization - Weak Minima Auxiliary problem

```
clear all
c=[0, 0, 0, 0, 0, 0, -1];
A=[ 0 0 0 -1 0 0 1; 0 0 0 0 -1 0 1 ;
    0 0 0 0 0 -1 1; 1 2 -3 1 0 0 0 ;
    -1 -1 -1 0 1 0 0; -4 -2 1 0 0 1 0;
    1 1 1 0 0 0 0; 0 0 1 0 0 0 0]
b= [0;0;0;-10; -10;-15;10;5]
Aeq=[];
beq=[];
lb= [zeros(6,1); -Inf]
[X,FVALWEAK]=linprog(c,A,b,[],[],lb,[])
```

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```
clear all
c=[0, 0, 0, -1, -1, -1]
A=[1 2 -3 1 0 0 ; -1 -1 -1 0 1 0 ;
    -4 -2 1 0 0 1 ; 1 1 1 0 0 0; 0 0 1 0 0 0]
b= [-10; -10;-15;10;5]
Aeq=[];
beq=[];
lb= zeros(6,1)
ub= [ ];
[x,FvalMin]=linprog(c, A, b,[],[],lb,ub)
```