```
f = [65 55 50 45];
A=[12 18 17 16;
   32 25 20 15;
   46 40 37 35;
   20 10 18 16;
   17 14 12 12;
   22 20 14 12;
   14 10 17 15;
   30 20 15 12];
b=[1875; 2000; 2125; 1600; 1400; 1500; 1423; 1900];
Aeq=[];
beq=[];
LB=[5;20;13;15];
UB =[];
[x,fval] = linprog(-f,A,b,Aeq,beq,LB,UB)
```

```
Optimal solution found.


x =

    6.9348
   20.0000
   13.0000
   15.0000


fval =

  -2.8758e+03
```

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