

```

1 library(lpSolve)
2
3 #1
4 cvec=c(6,7,9,5,8,9);
5 b=c(120,140,100,60,80);
6 condir=rep(">=",5)
7 A=rbind(c(rep(1,3),rep(0,3)),
8         c(rep(0,3),rep(1,3)),
9         rep(c(1,0,0),2),
10         rep(c(0,1,0),2),
11         rep(c(0,0,1),2));
12 o=lp(direction = "min",objective.in = cvec,const.mat = A,const.dir = condir,const.rhs = b)
13 o$solution
14 o$objval
15
16 > o=lp(direction = "min",objec
17 > o$solution
18 [1] 0 60 60 120 0 20
19 > o$objval
20 [1] 1740
21
22 #2
23 cvec=c(3,12,8,10,5,6,6,7,10);
24 b=c(90,30,100,70,110,80);
25 condir=c(rep("=",3),rep("<=",3));
26 A=rbind(c(1,1,1,0,0,0,0,0,0),
27         c(0,0,0,1,1,1,0,0,0),
28         c(0,0,0,0,0,0,1,1,1),
29         c(1,0,0,1,0,0,1,0,0),
30         c(0,1,0,0,1,0,0,1,0),
31         c(0,0,1,0,0,1,0,0,1));
32 o=lp(direction = "min",objective.in = cvec,const.mat = A,const.dir = condir,const.rhs = b)
33 o$solution
34 o$objval
35
36 > o=lp(direction = min ,objective.in = cv
37 > o$solution
38 [1] 70 0 20 0 10 20 0 100 0
39 > o$objval
40 [1] 1240
41 ~ |

```