```r
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
```

```
> o=lp(direction = "min",obje(
> o$solution
[1]    0  60  60 120   0  20
> o$objval
[1] 1740
```

```r
16  #2
17  cvec=c(3,12,8,10,5,6,6,7,10);
18  b=c(90,30,100,70,110,80);
19  condir=c(rep("=",3),rep("<=",3));
20  A=rbind(c(1,1,1,0,0,0,0,0,0),
21          c(0,0,0,1,1,1,0,0,0),
22          c(0,0,0,0,0,0,1,1,1),
23          c(1,0,0,1,0,0,1,0,0),
24          c(0,1,0,0,1,0,0,1,0),
25          c(0,0,1,0,0,1,0,0,1));
26  o=lp(direction = "min",objective.in = cvec,const.mat = A,const.dir = condir,const.rhs = b)
27  o$solution
28  o$objval
29
```

```
> o=lp(direction =  min ,objective.in = c\
> o$solution
[1]  70   0  20   0  10  20   0 100   0
> o$objval
[1] 1240
>
```