> #Q)

> # SHILPA 2017IMSST008

> # KM estimation Deshpande Table 5.7

> Ti<-c(142,149,320,345,560,805,1130,1720,2480,4210,5230,6890)

> length(Ti)

[1] 12

> Ni<-c(1,1,1,0,1,1,0,1,0,0,1,1)

> length(Ni)

[1] 12

> ctrl<-data.frame(Ti,Ni);ctrl

Ti Ni

1 142 1

2 149 1

3 320 1

4 345 0

5 560 1

6 805 1

7 1130 0

8 1720 1

9 2480 0

10 4210 0

11 5230 1

12 6890 1

> library(survival)

> km.ctrl<-survfit(Surv(ctrl$Ti,ctrl$Ni==1))

Error in survfit.Surv(Surv(ctrl$Ti, ctrl$Ni == 1)) :

the survfit function requires a formula as its first argument

> summary (km.ctrl)

Error in summary(km.ctrl) : object 'km.ctrl' not found

> #Groupwise survival curves

> Ti<-c(5,5,8,8,12,16,23,27,30, 33, 43, 45, 9, 13, 13, 18, 23, 28, 31,

+ 34,45,48,161)

> length(Ti)

[1] 23

> Ni<-c(rep(1,5),0,rep(1,6),1,1,0,1,1,0,1,1,0,1,0)

> pulse<-c(rep(1,12),rep(2,11))

> final<- data.frame(Ti,Ni,pulse);final

Ti Ni pulse

1 5 1 1

2 5 1 1

3 8 1 1

4 8 1 1

5 12 1 1

6 16 0 1

7 23 1 1

8 27 1 1

9 30 1 1

10 33 1 1

11 43 1 1

12 45 1 1

13 9 1 2

14 13 1 2

15 13 0 2

16 18 1 2

17 23 1 2

18 28 0 2

19 31 1 2

20 34 1 2

21 45 0 2

22 48 1 2

23 161 0 2

> surv.bygr<-survfit(Surv(Ti,Ni==1)~ pulse)

> plot(surv.bygr,conf.int=F,xlab= "Ti",ylab= "survival fn",

+ main= "2 Constructed S(t) curves",cex=.6)

