```
model{

for(i in 1:ns){

delta[i,t[i,1]]<–0

mu[i] ~ dnorm(0,.0001)

for (k in 1:na[i]) {

r[i,t[i,k]] ~ dbin(p[i,t[i,k]],n[i,t[i,k]])

logit(p[i,t[i,k]])<-mu[i] + delta[i,t[i,k]]

rhat[i,t[i,k]]<- p[i,t[i,k]] * n[i,t[i,k]]

resdev[i,k]<- 2 * (r[i,t[i,k]] * (log(r[i,t[i,k]]) – log(rhat[i,t[i,k]])) + (n[i,t[i,k]] – r[i,t[i,k]]) *

(log(n[i,t[i,k]] – r[i,t[i,k]]) – log(n[i,t[i,k]] – rhat[i,t[i,k]])))

}

sumdev[i]<-sum(resdev[i,1:na[i]])

for (k in 2:na[i]) {

delta[i,t[i,k]] <- d[t[i,k]] – d[t[i,1]]

}

}

sumdevtot<- sum(sumdev[])

d[1]<–0

for (k in 2:nt){

d[k] ~ dnorm(0,.0001)

}

for (i in 1:ns) {

mu1[i] <- mu[i] * equals(t[i,1],1)

}
```

```
for (k in 1:nt) {

logit(T[k])<- sum(mu1[])/nb +d[k]

}

for (k in 1:nt) {

rk[k]<-nt – rank(T[],k)

best[k]<-equals(rk[k],1)

}

for (c in 1:(nt-1)) {

for (k in (c+ 1):nt) {

lor[c,k] <- (d[k] – d[c])

or[c,k]<-exp(lor[c,k])

}

}

}
```