todo6

```
orida<- read.csv("ACSdata_org.csv")
synda<- read.csv("ACSdata_syn.csv")
sexsyn<- synda$SEX
racesyn<- synda$RACE
marsyn<- synda$MAR
data<- cbind(orida, sexsyn = sexsyn, racesyn = racesyn, marsyn = marsyn)
N<- dim(data)
nrow<- as.vector(1:N)
```

```
## Warning in 1:N: numerical expression has 2 elements: only the first used
```

```
orida<- cbind(orida, row = nrow)
synda<- cbind(synda, row = nrow)
```

```
emr<- c()
emrisk<- function(x){
  s<- sexsyn[x]
  r<- racesyn[x]
  m<- marsyn[x]
  select<- which(orida$SEX == s & orida$RACE == r & orida$MAR == m)
  ci<- length(select)
  if(x %in% select){
    return (1/ci)
  }
  else{
    return (0)
  }
}
for(i in 1:N){
  emr <- c(emr, emrisk(i))
}
```

```
## Warning in 1:N: numerical expression has 2 elements: only the first used
```

```
computci<- function(x){
  s<- sexsyn[x]
  r<- racesyn[x]
  m<- marsyn[x]
  select<- which(orida$SEX == s & orida$RACE == r & orida$MAR == m)
  ci<- length(select)
  return (ci)
}
ci<- c()
for(i in 1:N){
  ci<- c(ci, computci(i))
}
```

```
## Warning in 1:N: numerical expression has 2 elements: only the first used
```

```
orida<- cbind(orida, ci = ci)
data2<- filter(orida, ci == 1)
hel<- dim(data2)
```

```r
falsemr <- function(x){
  s<- sexsyn[x]
  r<- racesyn[x]
  m<- marsyn[x]
  select<- which(orida$SEX == s & orida$RACE == r & orida$MAR == m)
  ci<- length(select)
  if((!x %in% select) & ci == 1){
    return (1/hel)
  }
  else{
    return (0)
  }
}
fms<- c()
for(i in 1:N){
  fms<- c(fms, falsemr(i))
}
```

```
## Warning in 1:N: numerical expression has 2 elements: only the first used
```