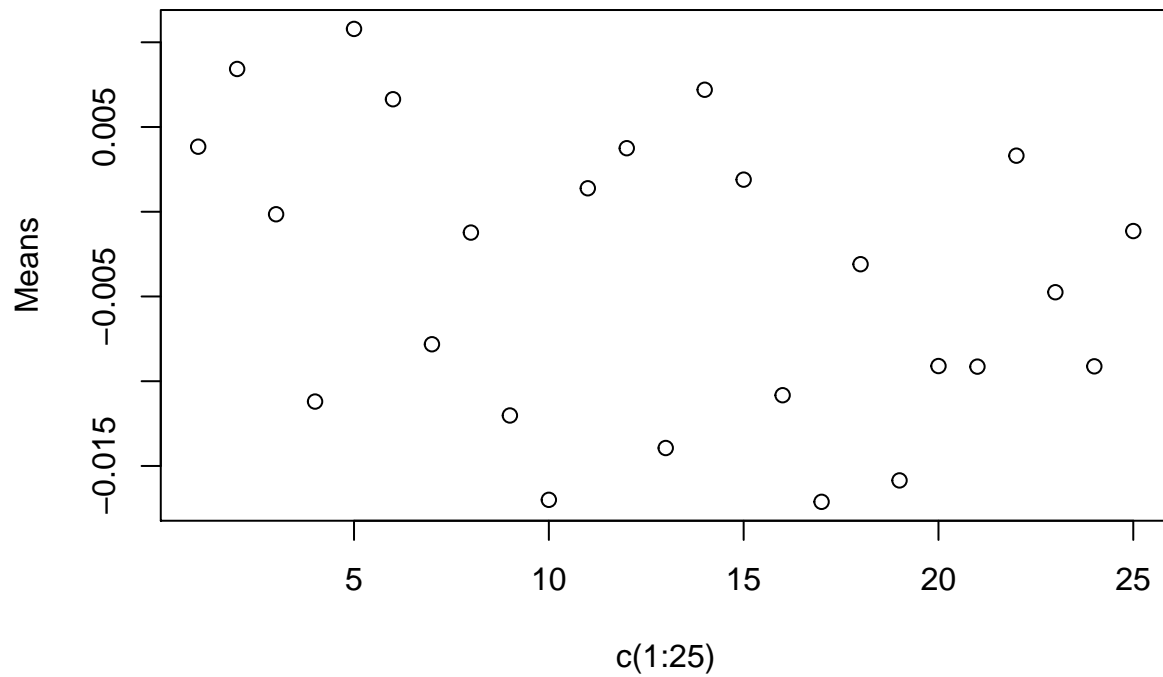# Distribution

Code

```
Means <- c( )
Vars <- c( )
i <- 1
for (n in c ( 1 : 25 ) ) {
X <- array ( runif( 10000*n ) , dim=c ( n , 10000 ) )
myZ <- function ( x , n ) {
(sum( x )-n/2)*sqrt(12/n)
}
myN <- apply (X, 2 , myZ, n=n )
Means [ i ] <- mean(myN)
Vars [ i ] <- var (myN)
i <- i + 1
}
```

Plot

```
plot ( x=c ( 1 : 25 ) , y=Means )
```

```
plot ( x=c ( 1 : 25 ) , y=Vars )
```