

```
hc = hclust(dist(M), "complete")
hc$merge
##
        [,1] [,2]
## [1,]
               -3
## [2,]
               -6
## [3,]
          -2
                1
## [4,]
          -5
                2
## [5,]
           3
plot(hc, hang = -1)
b = cutree(hc, k = 2)
table(b)
```

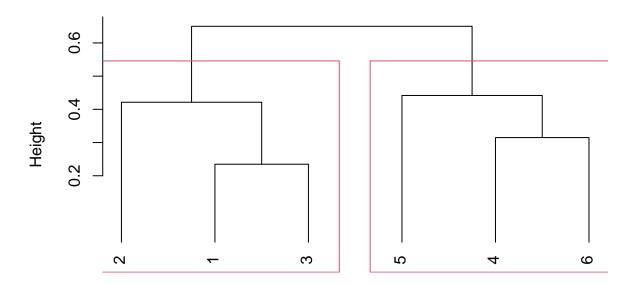
```
## b
## 1 2
## 3 3

(1:5)[b == 1]

## [1] 1 2 3

rect.hclust(hc, 2)
```

Cluster Dendrogram



dist(M)
hclust (*, "complete")

```
x = c(1, 1, 3, 4, 4, 2, 2.5, 1, 0.5,2)
m = matrix(x, ncol = 2, nrow = 5)
m
```

```
## [,1] [,2]
## [1,] 1 2.0
## [2,] 1 2.5
## [3,] 3 1.0
## [4,] 4 0.5
## [5,] 4 2.0
```

```
library(cluster)
ag = agnes(m, method = "ward")
pltree(ag, hang = -1)
```

Dendrogram of agnes(x = m, method = "ward")

