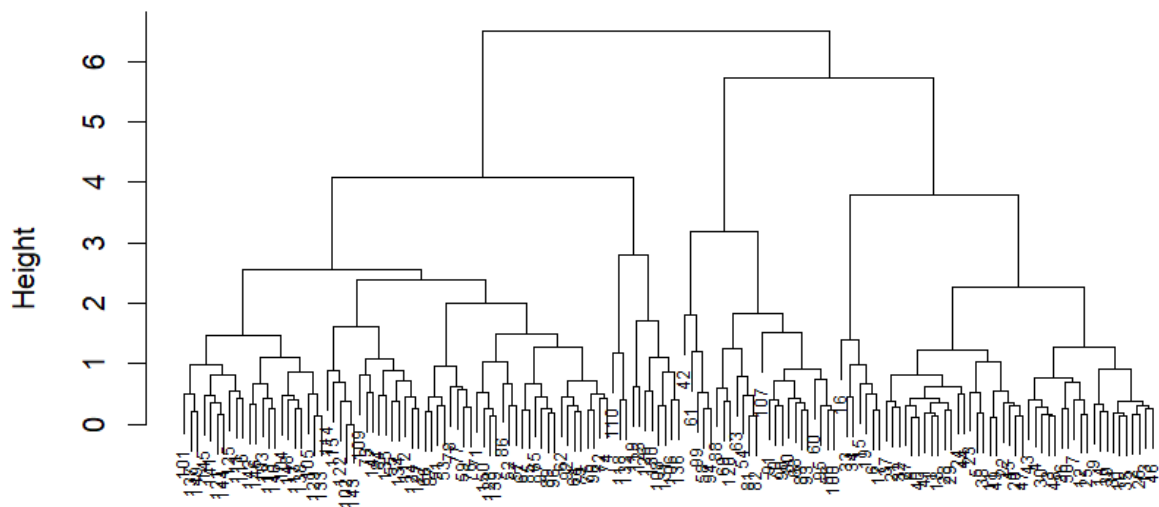


[illegible]

Hierarchical Clustering Dendrogram



b) K-Means Clustering

Load the iris dataset

```
data(iris)
```

Use only the numeric columns for clustering (exclude the Species column)

```
iris_data <- iris[, -5]
```

Standardize the data

```
iris_scaled <- scale(iris_data)
```

Set the number of clusters

```
set.seed(123) # For reproducibility
```

```
k <- 3 # Number of clusters
```

Perform K-Means clustering

```
kmeans_result <- kmeans(iris_scaled, centers = k, nstart = 25)
```

Print the K-Means result

```
print(kmeans_result)
```

Print the cluster centers

