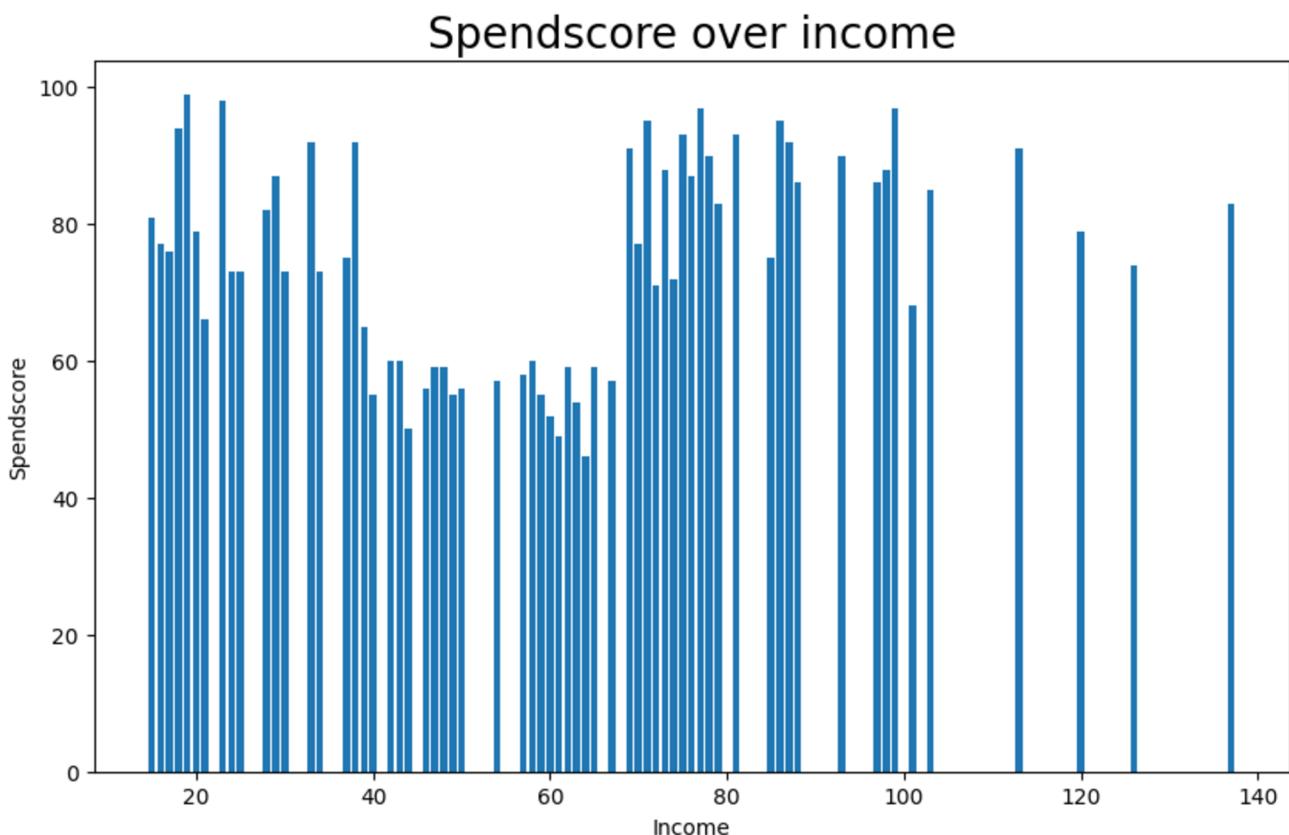


```
--- df.head() ---
```

```
CustomerID  Gender  Age  Annual Income (k$)  Spending Score (1-100)
0           1   Male   19                  15                      39
1           2   Male   21                  15                      81
2           3 Female  20                  16                      6
3           4 Female  23                  16                     77
4           5 Female  31                  17                     40
```



```
--- x.shape ---
```

```
(200, 2)
```

```
--- Cluster Labels (model.labels_) ---
```

```
[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  
-1 -1 -1 -1 -1 -1 -1 -1  0  0  0  0 -1 -1  0 -1  0 -1  0  0 -1  0 -1 -1 -1  
 0 -1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 -1  2  1  2  2  2  2  2  
 2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  2  3  
 3 -1  3 -1 -1  4 -1 -1 -1  4  5  4 -1  4  5 -1  5  4 -1  4  5 -1 -1  6  
-1 -1 -1  7 -1  6 -1  6 -1  7 -1  6 -1  7 -1  7 -1 -1 -1 -1 -1 -1 -1 -1 -1  
-1 -1  8 -1  8 -1  8 -1  8 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  
-1 -1 -1 -1 -1 -1 -1]
```

```
--- Number of Clusters ---
```

```
No of clusters: 9
```

Clusters of data (Estimated clusters: 9)

