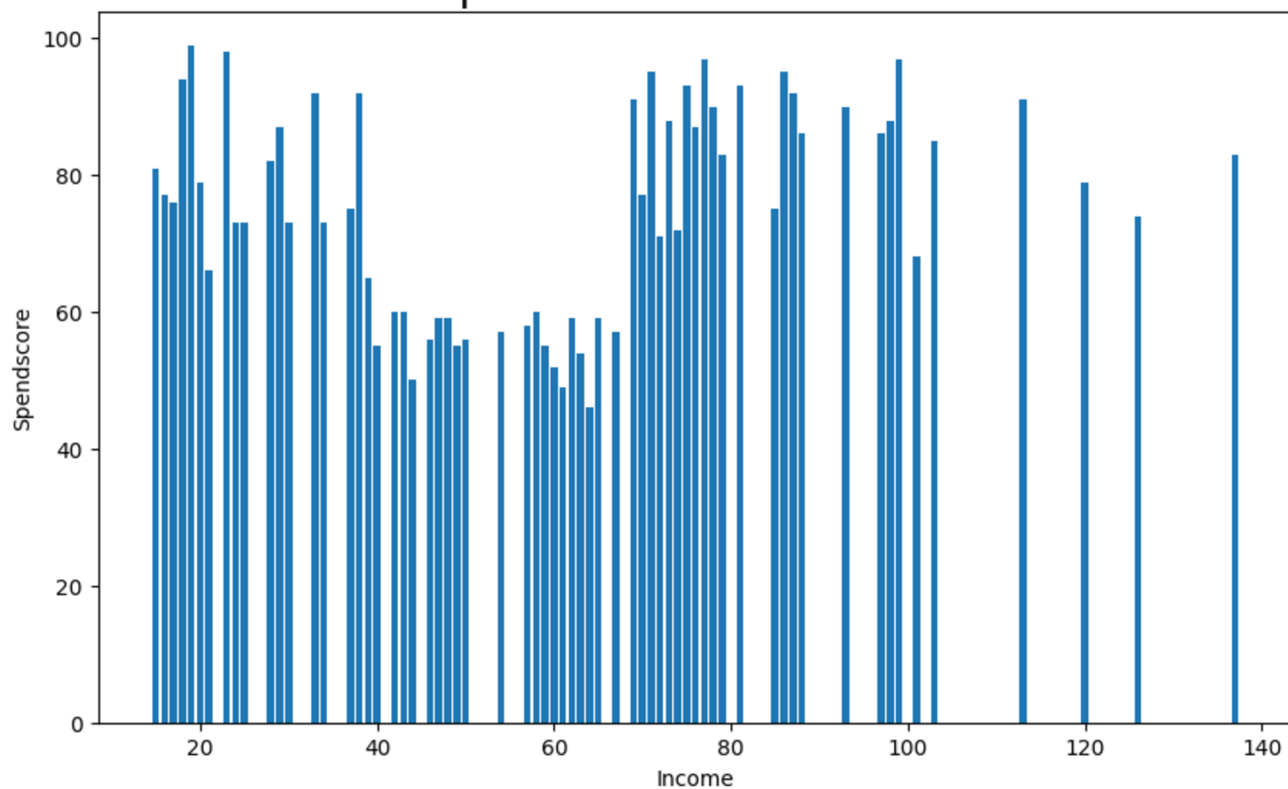


```
--- df.head() ---
```

	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

Spendscore over income



```
--- 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  0  0  0  0 -1 -1  0 -1  0 -1  0 -1  0 -1 -1  
  0 -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  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  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]
```

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

```
No of clusters: 9
```

Clusters of data (Estimated clusters: 9)

