**Problem Statement:** Customer’s requirement for buy a new home.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Price | Furnitured | Duplex | Buy | | 1 | 1 | 0 | 1 | | 1 | 0 | 1 | 1 | | 0 | 1 | 1 | 0 | | 0 | 0 | 1 | 0 | | 1 | 0 | 0 | 1 | | 0 | 0 | 0 | 0 |   **Data for customer buy a new home or not.**  If buy :1  Else : 0    **Conclusion:** This data is linearly seperable. |