

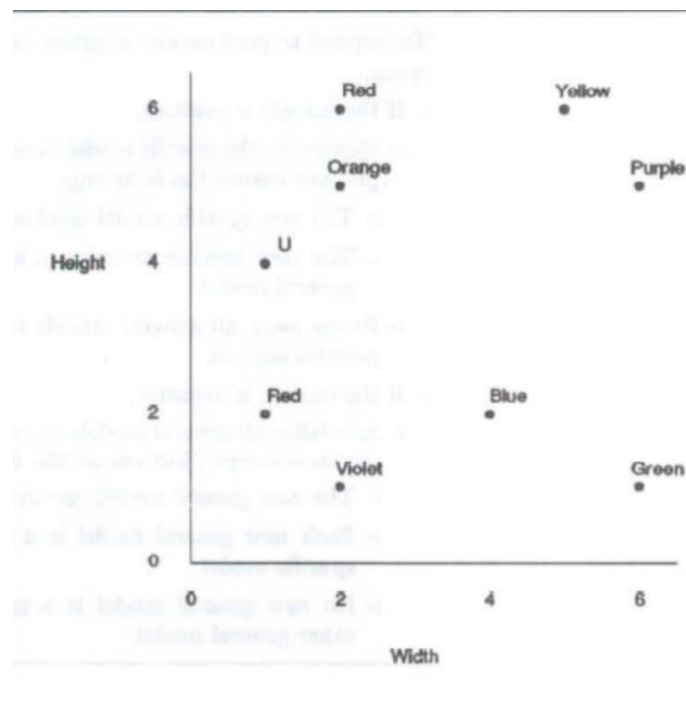
Question 1

Will John buy the product?

Customer	Age	Income	No. credit cards	Class
George	35	35K	3	No
Rachel	22	50K	2	Yes
Steve	63	200K	1	No
Tom	59	170K	1	No
Anne	25	40K	4	Yes

John	37	50K	2	
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Question 2



Instead of using same weights for voting, we can apply some other mechanisms as follows.

- Distance-based: $w = 1/d^2$
- Gaussian-based: $w = e^{-kd}$

Will the unknown object (U) be classified as Red or Orange if:

- Using distance-based metric.
- Using Gaussian-based metric with k being 0.2 and 0.4 respectively