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Q3.

Define separation as meaning A is independent of C given Y, and Sufficiency as meaning A is independent of Y given C

Let A be gender, Y be hyperlipidemia, and C be 1 if p(Y|region)>=.5 and 0 ow.

I claim we have separation but not sufficiency.

Let A be gender, Y be hyperlipidemia, and C be 1 if p(Y|activity)>=.5 and 0 ow.

I claim we have sufficiency but not seperation.