

The "coordinates" of the elements in both pop. and sample are generally called variables. But There are 2 types of variables That we (in 390) worry about

1) continuous: e.g. x= time it takes to complete a comp. code.

2) discrete / Categorical:

a) quantitative: e.g. x = # of defective elements in a computer. $x \in Integers (0,1,2,...)$

> e.g. $x = \pm of$ Macs in a class of 100 students x ∈ {0,1,--,100} vandom

e-g. x = computer type. "levels". b) qualitative:

_ called

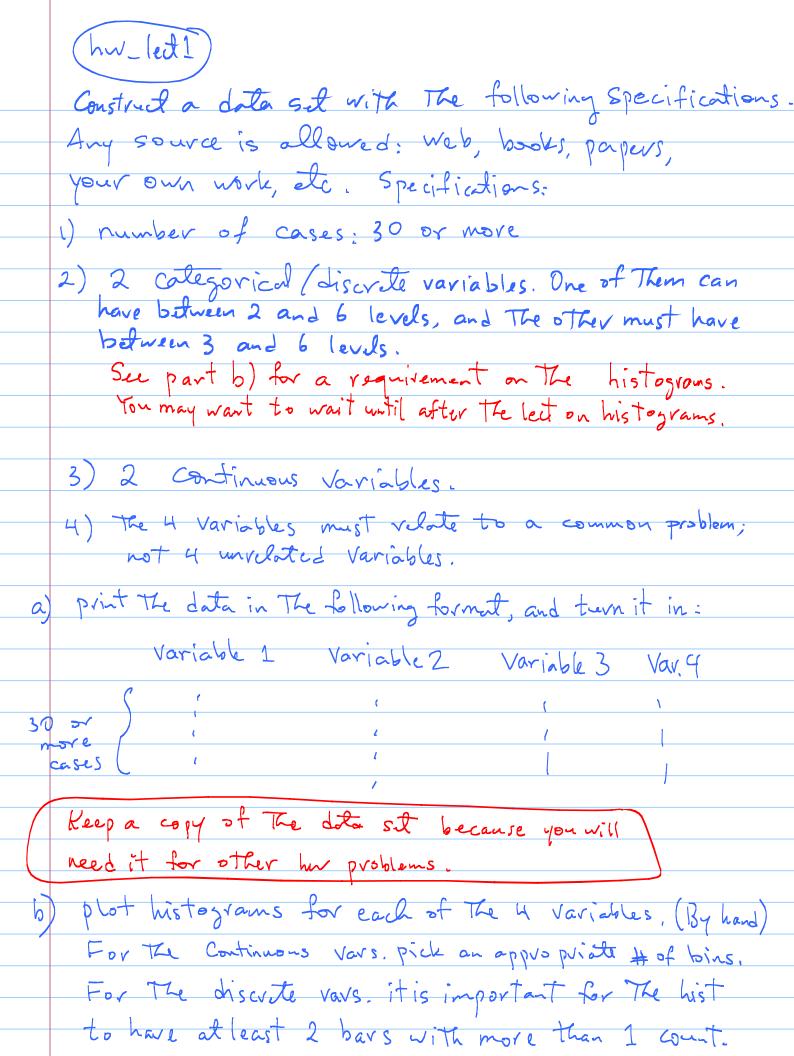
x ∈ { Mac, Dell, HP}

e.g. x = state of a coin $x \in \{ Heads, Tails \}$

e.g. n = Letter grades in a class of 120 students7 € { A, B, C, D, F}

ry. random variable. This is a very important concept in statistics.

All we need to know about it is That it is a variable (e.j. length, time, type, ...) That changes values everytime we observe/measure it from a sample.



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