1. A health study is being conducted on a population of 60 women and 40 men.
   (a) Label the women 1 through 60 and the men 61 through 100. Estimate many women are in a simple random sample of size 20.
   (b) Determine ten simple random samples of size 20 and record the number of women in each of the samples.
   (c) Find the mean and the standard deviation of the number of women in the samples. How does this conform to your estimate?
   (d) Perform a stratified random sample having 10 women and 10 men and display your answer.
   (e) Perform 12 samples of 10 women and for each woman, record the number samples in which she appears.
   (f) Find the mean and standard deviation of this data set. Why is the mean exactly equal to 2?
   (g) Make a histogram showing the number of women that appear 0, 1, 2, . . . , times.

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