

Mouse Memory

Background

Dr. Morris studies the effect of drugs on the memory of mice. She has designed a new experiment and wants to test three different drugs on the mice. She has 40 mice, each with its own age in days, which are provided in [MOUSEAGE.csv](#). Dr. Morris knows that age can affect the way that each mouse responds to the drugs. She wants the groups to contain varied ages, and is wondering if there is a better way than randomization to divide the mice into groups for her experiment. She would like to have as little discrepancy between ages in the groups as possible.

Question

Create 4 groups each containing 10 mice. Your objective is to minimize the sum of all pairwise differences in group means and all pairwise differences in group variances.

Datasets Provided

[MOUSEAGE.csv](#) -

A CSV with ages of 40 mice. The n th entry contains the age of the n th mouse.

Solution Requirements

Since each mouse has a distinct number corresponding to a row in the data set, provide a 4x10 CSV where each entry is a mouse number, and each row is a group of mice. For instance, if a group contains mouse numbers 1 through 10, one of the rows will look like: 1,2,3,4,5,6,7,8,9,10

