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CS 110 - Assignment #7 Part #1

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In this program, I chose to use a dataset that relates reaction times of patients in (ms) to the number of days of sleep deprivation. This data is relevant, because at college sleep is something is often hard to come by. As a person who requires a lot of sleep, I was interested in looking if a dataset of 18 patients had certain trends. First, I had to design a custom class I chose to call Subject. The subject constructor takes one parameter (the subject number) and holds two arrays for each patient’s information pertaining to the extent of sleep deprivation (days) and the reaction time (ms). To organize my data, I used nested loops to construct the array of type subject. In the first loop, I put each third element of the parsed data array (the patient number) of each tenth line of data (starting with line 1). In the inner loop, I further split each of the data lines into their parts and placed each day and reaction time into its appropriate location. I plan to visualize this data by pressing keys a-r to show each patient’s graph by itself. Additionally, for the animation portion, I will code to make the different graphs cycle through on the screen. This project is definitely stretching my coding abilities, which I believe it was designed to do. I had a rocky start with the constructor, but am slowly figuring this out.