3. Based on the JSON data (number of IE students in different years for five universities) in the following URL, please implement an Interactive Stacked Bar Chart following the three steps.

http://hivelab.org/static/exam1.json

3.1. Bar Chart. Implement a bar chart to compare the number of *senior* IE students in the five universities. The bar chart should have a proper title, axes, axis labels, and legends. (30 points)

3.2. Stacked Bar Chart. As shown in Figure (a), implement a stacked bar chart in order to help compare total numbers of IE students in five universities easily. (10 points)

3.3. Interactive Stacked Bar Chart. As shown in Figure (b), implement an interactive stacked bar chart. When a segment of a bar (the West section in this example) is clicked, the segments should be interactively aligned to the base line (x-axis) to help comparison of the selected segment. (extra 20 points)

Note that Figures (a) and (b) are based on a different data set, so your implemented visualizations may look different. You can be creative in color and style as long as the visualizations satisfy the aforementioned requirements.

The implemented visualizations should be publicly available. You need to submit a single URL to an HTML page, and the page should contain three links, which are directed to the three implemented visualizations.

Your answer will be evaluated based on 1) whether the visualizations were properly implemented; 2) whether components in D3 (e.g., data import, scale, axis, text, functions, animation, event handler, etc.) were properly used instead of being unnecessarily reinvented; and 3) resulting codes are easy to read.

