1. How can D3 access and change the DOM? What do select and selectAll do?

*Select selects the first element with a certain tagid, select All selects all of the elements with a certain tagid*

1. What are the d and i in function(d){} and function(d, i){}?

*d: d refers to data that is bound to a certain element.   
i: i refers to the index of an certain element, which might be usefull if there are more than one of the same type of data.*

1. Write sample lines of JavaScript to add a div element with class “barChart1” and to add an svg element with class “barChart2” with square dimensions.
2. Describe append, update, enter, and exit at a high level. What does “selectAll + data + enter + append” refer to?

*The enter selection is used to enter and modify the values of different elements. When there is a difference in the amount of data and the amount of elements available, there are different commands that are capable of correcting it.*

*When there are too many data, append can append a new element to use the data. Whereas if there are too many elements, exit can remove elements without data.*

*Update, updates the values of the elements when they new data is available.*

*The “selectAll + data + enter + append” refers to a frequently used method, that sequentially calls one function after the other. It* ***selects******all*** *of certain elements, gives the new* ***data****,* ***enters*** *the elements and* ***append*** *the new data.*

1. What are the main differences between drawing a bar chart with HTML and SVG?

*HTML uses pixelated imaging whereas SVG is a vectorbased platform, which means that SVG can be scaled to any size or form. Also SVG supports interaction between the chart and the user.*

1. In drawing the simple bar chart with D3 and SVG, what elements were appended, and what parts of the graph did these elements correspond to?

*Each bar in the barchart consists of element g, for every barchart there are also a ‘rect’ and ‘text’ element which are individually appended for every bar.*