

## D3 Questions 1

## Instructions:

**Quickly**, without looking at your computer screen, circle the digits in the understanding columns to rate the following statement for each substantive line of code. Answer the two questions for as many lines as you can, starting at the top.

The questions are:

- 1) I understand what this line does and its purpose in the larger program.**  
(1 for completely disagree, 5 for completely agree)

	Understand	Source Code of the Example From Your Task
		<b>JavaScript</b>
1	1 2 3 4 5	var svg = d3.select("svg"),
2	1 2 3 4 5	diameter = +svg.attr("width"),
3	1 2 3 4 5	g = svg.append("g").attr("transform", "translate(2,14)"),
4	1 2 3 4 5	format = d3.format(",d");
5		
6	1 2 3 4 5	var pack = d3.pack()
7	1 2 3 4 5	.size([diameter - 4, diameter - 16]);
8		
9	1 2 3 4 5	d3.json("flare.json", function(error, root) {
10	1 2 3 4 5	if (error) throw error;
11		
12	1 2 3 4 5	root = d3.hierarchy(root)
13	1 2 3 4 5	.sum(function(d) { return d.size; })
14	1 2 3 4 5	.sort(function(a, b) { return b.value - a.value; });
15		
16	1 2 3 4 5	var node = g.selectAll(".node")
17	1 2 3 4 5	.data(pack(root).descendants())
18	1 2 3 4 5	.enter().append("g")
19	1 2 3 4 5	.attr("class", function(d) { return d.children ? "node" : "leaf node"; })
20	1 2 3 4 5	.attr("transform", function(d) { return "translate(" + d.x + "," + d.y + ")"; });
21		
22	1 2 3 4 5	node.append("title")
23	1 2 3 4 5	.text(function(d) { return d.data.name + "\n" + format(d.value); });
24		
25	1 2 3 4 5	node.append("circle")
26	1 2 3 4 5	.attr("r", function(d) { return d.r; });
27		
28	1 2 3 4 5	node.filter(function(d) { return !d.children; }).append("text")
29	1 2 3 4 5	.attr("dy", "0.3em")
30	1 2 3 4 5	.text(function(d) { return d.data.name.substring(0, d.r / 3); });
31		});

32		
33	1 2 3 4 5	svg.append("text")
34	1 2 3 4 5	.text("Flare")
35	1 2 3 4 5	.attr("dx", diameter/2 + "px")
36	1 2 3 4 5	.attr("dy", diameter + "px");



## D3 Questions 2

### Instructions:

Write one or more sentences in answer to the following two questions. You may reference your code and the example code from this task.

1) What information or strategies did you find most helpful?

2) What additional information would you have wanted?