Dealing & drawing with data

Quiz, 10 questions

1 point

1.

```
var employees = [ {name:"Ali", salary: 50000},
                  {name:"Zoe", salary:75000},
                  {name:"Jack", salary: 60000},
                  {name:"Felix", salary: 35000}];
```

A company wants to calculate total salaries it pays to its employees. Which of the following options can be used to compute the sum of the salaries.

```
let totalsalary = d3.sum(employees, (d) => d.salary)
```

```
let totalsalary = d3.sum(employees.map((d) => d.salary))
```

```
let totalsalary = employees.reduce(
  (cur, prev) => cur + prev.salary, 0)
```

None of the above

1 point

2.

Numeric scale can be used for both categorical and quantitative data.

True

False

1 point

3.

```
let car = [ {model:"500", price: 50000},
            {model:"600", price:75000},
            {model:"700", price: 60000},
            {model:"400", price: 35000}];

car = car.filter(d => d.price > 55000)

let m= d3.mean(car, (d)=> d.price)
```

What will be the value stored in the variable 'm' after the execution of the above lines of code?

55000

67500

220000

Undefined

1 point

4.

Given an empty html list, d3.selectAll("li").data(data) will create a list item for each data point in the data

True

False

1 point

5.

```
let container= d3.select("#container");
let cars = [
  {name:"toyota", price: 50000},
  {name:"BMW", price:75000},
  {name:"Tesla", price: 60000},
  {name:"Jeep", price: 35000}];

let join = container
  .selectAll("li")
  .data(cars);

join.enter()
  .append("li")
  .text( ______ )
```

Which of the following options correctly fills in the blank in the above code to display the list of names and corresponding prices of cars?

d => cars

d

d=> d.name + " " + d.price

All of the above

1 point

6.

The above code can be used to load data from **json** file.

True

False

1 point

7.

D3 api 'd3.extent(data[, accessor])' can be used to get both the maximum and the minimum value from the data

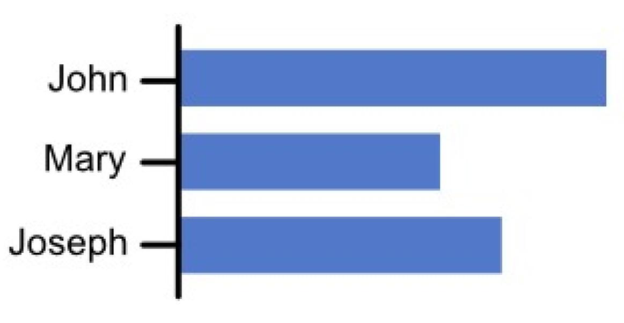
True

False

1 point

8.

In the chart below, which axis and scale could we use to create the axes with the names.



d3.scaleBand and d3.axisTop

d3.scaleLinear and d3.axisLeft

d3.scaleLinear and d3.axisTop

d3.scaleBand and d3.axisLeft

1 point

9.

Which of the following options correctly draws a circle with radius 5 at position (10,10)

```
<svg>
  <circle r="5" cx="10" cy="10" />
</svg>
```

```
<svg>
  <circle cx="10" cy="10" />
</svg>
```

```
<svg>
  <circle r="5" x="10" y="10" />
</svg>
```

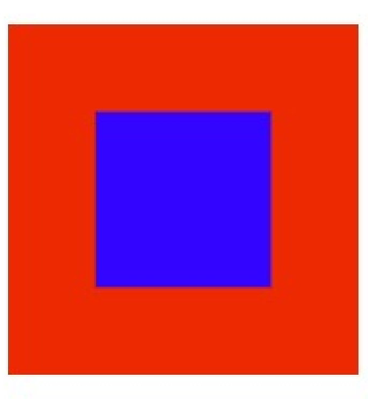
1 point

10.

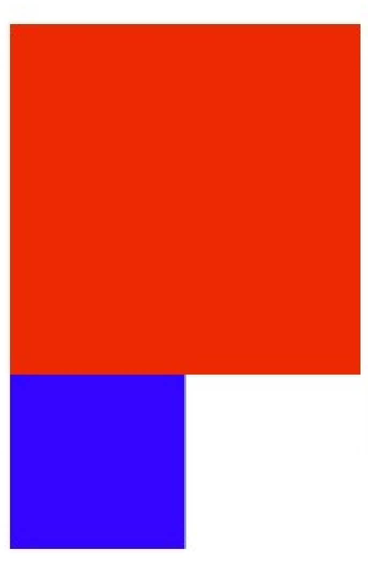
How the blue square will be positioned in relation to the red square?

```
<svg>
  <rect width="100" height="100" fill="red" />
  <rect width="50" height="50" fill="blue" />
</svg>
```

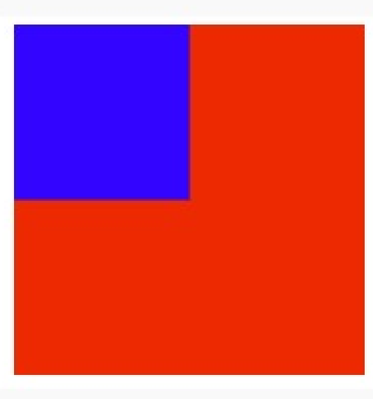
Centered



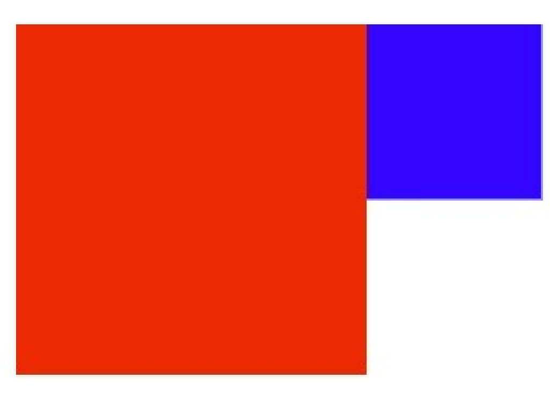
On the bottom



Top-left



On the left



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