

your name \_\_\_\_\_ your student ID# \_\_\_\_\_

### Tracery (2 points)

```
{  
  "origin": ["#abc##123#"],  
  "abc": ["1","2","3"],  
  "123": ["a","b","c"]  
}
```

This Tracery code can produce exactly **nine** different outputs. Please write them all below:

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### JavaScript (2 points)

```
function doSomething(){  
  let emptyString = "";  
  return infiniteAaa(emptyString);  
}  
  
function infiniteAaa(input){  
  input += "a";  
  return infiniteAaa(input);  
}
```

Please explain *why* this code either **IS** or **ISN'T** recursive.

\_\_\_\_\_  
\_\_\_\_\_

Would these functions *return* anything? If so, **what** would they return? If not, **why** not?

\_\_\_\_\_  
\_\_\_\_\_

**JavaScript VS. Tracery (2 points)**

Circle the Tracery / JSON code that most closely replicates the JavaScript code below:

```
function doSomething(){
  let emptyString = "";
  return oohLa(emptyString);
}

function oohLa(input){
  if(Math.random() > 0.5){
    return "ooh" + input;
  }
  return oohLa(input + " la");
}
```

```
{
  "origin": ["#Repeat#"],
  "Repeat": ["ooh", "#Repeat# la"]
}
```

(A)

```
{
  "origin": ["#Loop#", "la"],
  "Loop": ["#Loop# ooh"]
}
```

(B)

```
{
  "origin": ["la", "#ooh#"],
  "ooh": ["la", "#origin#"]
}
```

(C)

**Short Answer (2 points each)**

What *different* ways do Morozov & Bostrom recommend to ensure A.I. is used for social good?

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According to Epstein, Why is the brain-as-computer metaphor such a big problem?

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