**TASK-10.0**

**Please read the source code below and try to understand what it does.**

**private** **int** calculateNumPopulatedBytes(OrdinalIterator ordinalIterator) {

**int** totalSize = 0;

**int** ordinal = ordinalIterator.nextOrdinal();

**while**(ordinal != NO\_MORE\_ORDINALS) {

totalSize += calculateVIntSize(ordinal);

ordinal = ordinalIterator.nextOrdinal();

}

}

**Q.10.0. How well do you think you understand the code?**

* Well
* Not so well

**TASK-10.1**

However, this same code is failing.

**Failure Message:**

Probing algorithm spinning indefinitely trying to find a hole in a byte sequence.

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We will ask you to inpect **two different** locations in the **same code**.

**Q.10.1. Do you think that the highlighted location causes the failure?**

* Yes
* No

**private** **int** calculateNumPopulatedBytes(OrdinalIterator ordinalIterator) {

**int** totalSize = 0;

**int** ordinal = ordinalIterator.nextOrdinal();

**while**(ordinal != NO\_MORE\_ORDINALS) {

totalSize += calculateVIntSize(ordinal);

ordinal = ordinalIterator.nextOrdinal();

}

}

**Q.10.2. How confident are you that your answer is correct?**

* Confident
* Not so confident

**TASK-10.2**

**Failure Message:**

Probing algorithm spinning indefinitely trying to find a hole in a byte sequence.

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**Q.10.3. Do you think that the highlighted code causes the failure?**

* Yes
* No

**private** **int** calculateNumPopulatedBytes(OrdinalIterator ordinalIterator) {

**int** totalSize = 0;

**int** ordinal = ordinalIterator.nextOrdinal();

**while**(ordinal != NO\_MORE\_ORDINALS) {

totalSize += calculateVIntSize(ordinal);

ordinal = ordinalIterator.nextOrdinal();

}

}

**Q.10.4. How confident are you that your answer is correct?**

* Confident
* Not so confident