Question 1. [10 MARKS]

Part (a) [1 MARK]

Suppose we have a class called `Kettle`, with an initializer and one additional method: `boil`. Which of these is it appropriate for `Kettle`'s representation invariants to mention? Circle all that apply.

1. parameters of the initializer for class `Kettle`
2. private attributes of class `Kettle`
3. public attributes of class `Kettle`
4. parameters of method `boil`

Solution: (2) and (3).

Part (b) [1 MARK]

Suppose class `High` is the parent of class `Low`. What methods does `Low` inherit from `High`? Circle one.

1. all methods in `High`
2. all methods in `High` except the initializer
3. all public methods in `High`
4. all methods in `High` that don't access private attributes
5. no methods from `High`

Solution: (1)

Part (c) [3 MARKS]

If we run this code, what is printed? Write your answer to the right of the code.

```
def cow(this: int, that: int) -> int:
```