

1. Why won't the JVM let you load an integer into the PC directly?

- Because every instructions have different bit length

2. How can structured programming concepts be implemented in assembly language?

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3. Is a "branch if greater than 0 or less than 0" instruction available in the JVM instruction set?

If not, how would you implement it?

- No. There are 'equal to', 'not equal to', 'less than', 'greater or equal', 'greater than' and 'less or equal' types of instruction. Maybe using `if_icmpltgt` and `if_icmplt` instructions at the same time.

4. Is NaN (not a number) greater or less than 0.0?

- greater than 0.0 (example in pg.88..?)

5. How do you build an if/else-if/else-if/else control structure in jasmin?

Start:

```
lcmp          compare the magnitudes
ifge Else     if result match, go to Else
goto End      if not, go to End
```

Else:

```
lcmp          compare the magnitudes
Ifge Else     if result match, go to Else
Goto End      if not, go to End
```

End:

```
Blah Blah     End the program
```