

# Quiz 7

Sketch the local JVM stack after each bytecode is executed where `local[1]=7`, `local[2]=3`, and the stack is initially empty

```
iload 1
```

```
iconst_2
```

```
iload 2
```

```
ineg
```

```
imul
```

```
iadd
```

Hint: to do this you will have to calculate the size needed for the local stack

# The stack has a maximum of 3 elements

\_ indicates an undefined value

```
local = [_, 7, 3]
```

|          |            |
|----------|------------|
|          | [_, _, _]  |
| iload 1  | [7, _, _]  |
| iconst_2 | [7, 2, _]  |
| iload 2  | [7, 2, 3]  |
| ineg     | [7, 2, -3] |
| imul     | [7, -6, _] |
| iadd     | [1, _, _]  |