Quiz 6

In your JOOS compiler you implemented the "for" statement as syntactic sugar, thus, you didn't need to extend the type checker.

Write the logical type rule for the "for" statement:

```
for (S; E; S) S
```

$$L,C,M,V \vdash S_{init}$$

 $L,C,M,V \vdash E$: boolean
 $L,C,M,V \vdash S_{increment}$
 $L,C,M,V \vdash S_{body}$

 $L,C,M,V \vdash \text{for } (S_{init};E;S_{increment})S_{body}$