

Quiz 9

The JOOS peephole optimizer runs after stack limits are calculated.

Can the application of a peephole pattern change the stack limits?

If not, explain why not.

If so, given an example that illustrates how they can change and describe the peephole pattern.

Peephole patterns can reduce the stack limits.

Consider a “constant folding optimization” that looks for constant operands to `iadd` and replaces all 3 bytecodes with the constant that is their sum.

For example:

<code>iconst_2</code>		
<code>iconst_2</code>		<code>iconst_4</code>
<code>iadd</code>		