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TDT4205
Problem Set 5

Optimizations

1.1
The optimization applied is *Dead code elimination* : g=f disappears because the value is never used after assignation.

1.2
The optimization applied is *Common subexpression elimination* : the expression b+c is used multiples times, so we can reuse the result keeping it in a temporal variable called t1.

1.3
The optimization applied is *Constant propagation* , because the values of a, b and c do not change.

1.4
The optimization applied is *Copy propagation* : after assign f=e, replaces the uses of f with e.