Exercise 1: Loop rotation
Consider the following program.

1. Perform the analysis to find pre-dominators.
2. Perform loop-rotation if possible.

Exercise 2: nop-Optimization
Remove no-op edges from the following program.

Construct the function \textit{next} and “apply” it to the CFG as shown in the slides (slide 503). Draw the resulting CFG.

Exercise 3: Linearization
Consider the following program.

a) Assign temperature to each node according to nesting depth.
b) Linearize the program.