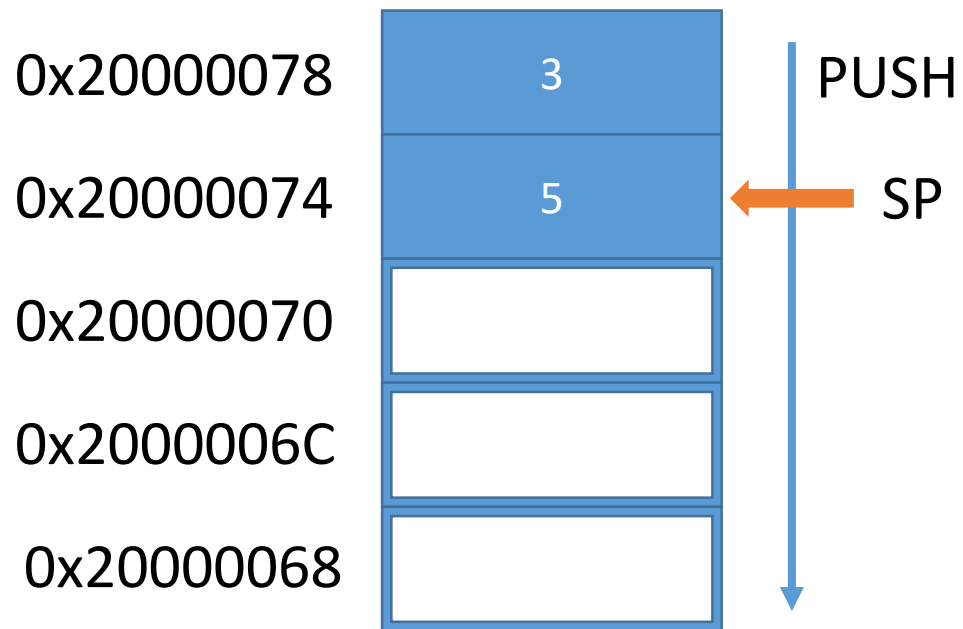


MCSL2017

Lab3

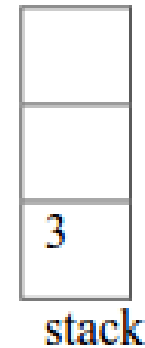
Lab 3.1 Postfix arithmetic

- Setup stack pointer
- Calculate postfix expression with stack

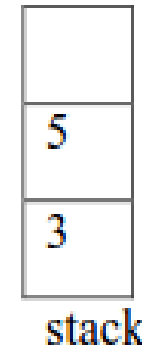


The processor uses a full descending stack.

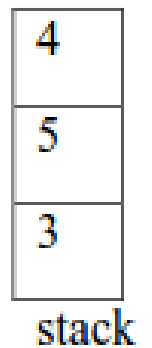
(1) 3, 5, 4, -, +



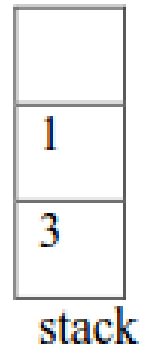
(2) 3, 5, 4, -, +



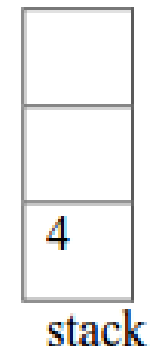
(3) 3, 5, 4, -, +



(4) 3, 5, 4, -, +



(5) 3, 5, 4, -, +



Lab 3.2 Calculating Greatest Common Divisor

- Use **Stein's algorithm** to find GCD
- Calculate the maximum stack size used in program

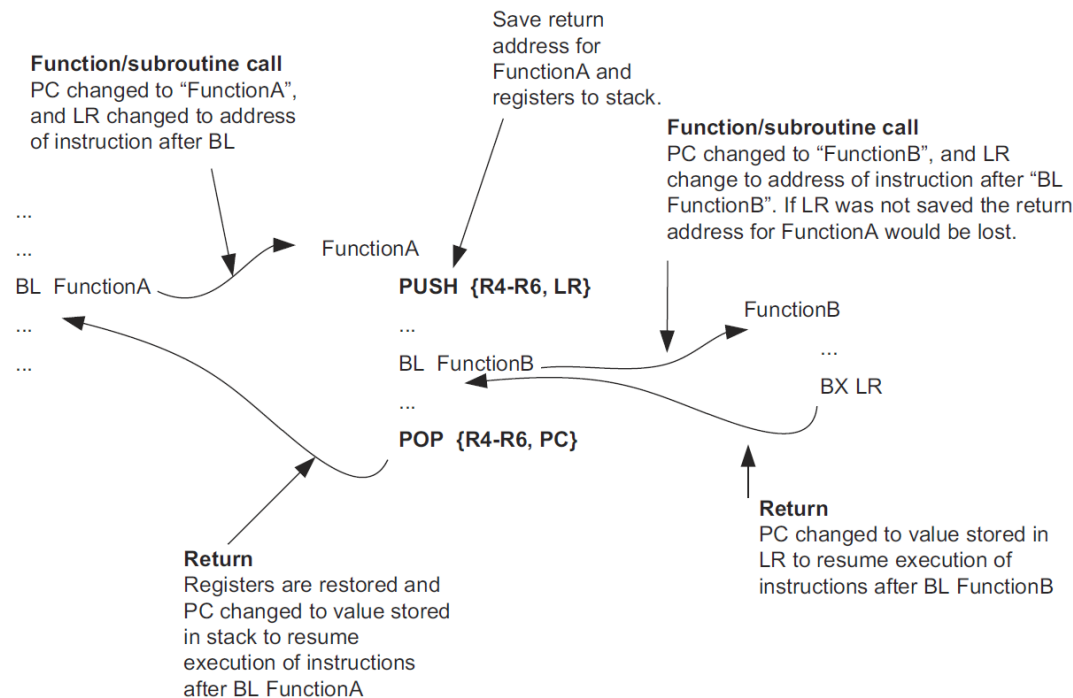


Figure 6.3:
Using push and pop of multiple registers in functions.

