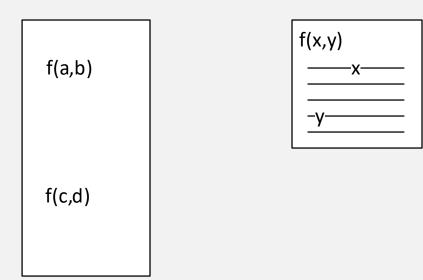


MACROS AND INLINE FUNCTIONS

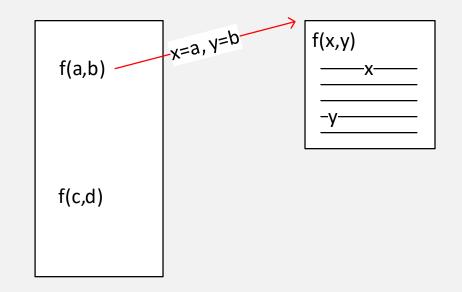
Eliminating the call and return

Delroy A. Brinkerhoff

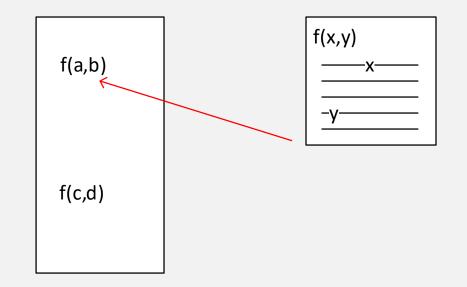




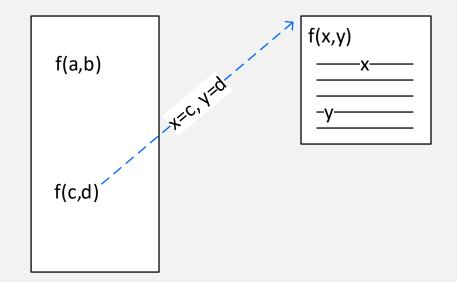


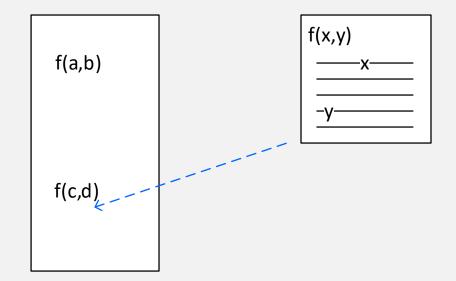




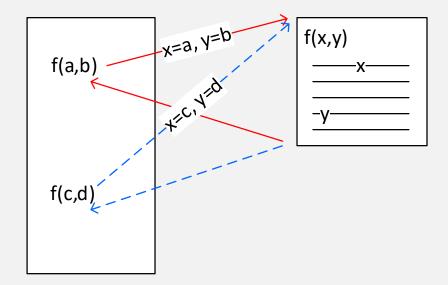




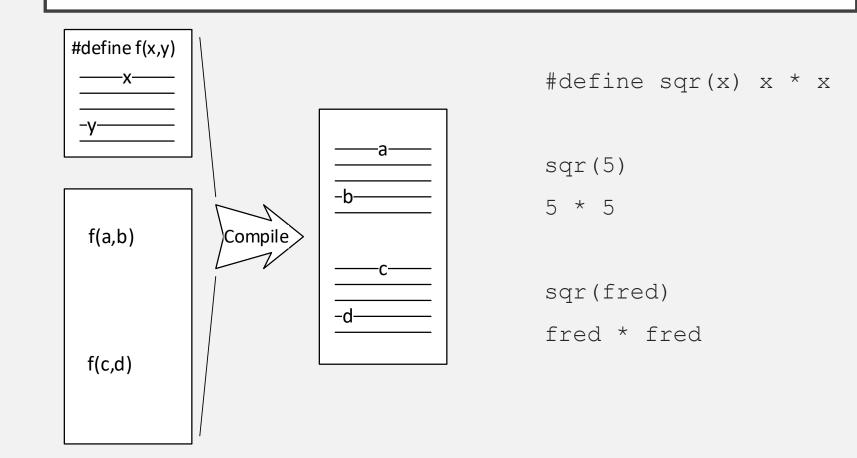








PARAMETERIZED MACROS: THE GOOD





MACRO PROBLEMS: THE BAD

| <pre>#define sqr(x) (x * x)</pre> | <pre>#define sqr(x) ((x) * (x))</pre> |
|-----------------------------------|---------------------------------------|
| sqr(2 + 3) | sqr(2 + 3) |
| (2 + 3 * 2 + 3) | ((2 + 3) * (2 + 3)) |



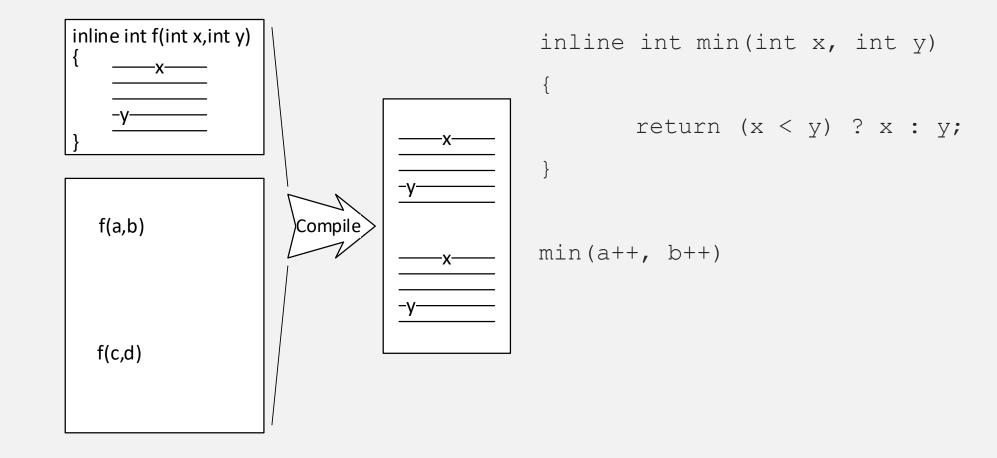
MACRO PROBLEMS: THE UGLY

#define min(x,y) (((x) < (y)) ? (x) : (y))

min(a++, b++)

(((a++) < (b++)) ? (a++) : (b++))

INLINE FUNCTIONS





INLINE RULES

- "inline" is a suggestion that the compiler may choose to ignore
- Is only appropriate for small functions
- Not appropriate when the address of a function is needed.