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#include "complex.h"

int
main(void)
{
    complex_t com1, com2;

    /* Gets two complex numbers */
    printf("Enter the real and imaginary parts of a complex number\n");
    printf("separated by a space> ");
    scan_complex(&com1);
    printf("Enter a second complex number> ");
    scan_complex(&com2);

    /* Forms and displays the sum */
    printf("\n");
    print_complex(com1);
    printf(" + ");
    print_complex(com2);
    printf(" = ");
    print_complex(add_complex(com1, com2));

    /* Forms and displays the difference */
    printf("\n\n");
    print_complex(com1);
    printf(" - ");
    print_complex(com2);
    printf(" = ");
    print_complex(subtract_complex(com1, com2));

    /* Forms and displays the absolute value of the first number */
    printf("\n\n|");
    print_complex(com1);
    printf("| = ");
    print_complex(abs_complex(com1));
    printf("\n");

    return (0);
}
```