- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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Solution to Homework 19

1.
    A. Register `%ebx` holds the value of parameter `x`, so that it can be used to compute the result expression.

    B.
    ```
    int rfun(unsigned x) {
        if (x == 0)
            return 0;
        unsigned nx = x >> 1;
        int rv = rfun(nx);
        return (x & 0x1) + rv;
    }
    ```

    C. This function computes the sum of the bits in argument `x`. It recursively computes the sum of all but the least significant bit, and then it adds the least significant bit to get the result.

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