190. Reverse Bits

Reverse bits of a given 32 bits unsigned integer.

Example 1:

```
Input: 00000010100101000001111010011100
Output: 00111001011110000010100101000000
Explanation: The input binary string 00000010100101000001111010011100
represents the unsigned integer 43261596, so return 964176192 which its
binary representation is 00111001011110000010100101000000.
```

Example 2:

```
Input: 11111111111111111111111111111101
Output: 10111111111111111111111111111111
Explanation: The input binary string 11111111111111111111111111111101
represents the unsigned integer 4294967293, so return 3221225471 which its
binary representation is 10111111111111111111111111111111.
```

- 先右移到 bit 0 再左移到目標bit

```
uint32_t reverseBits(uint32_t n) {
    uint32_t res = 0;

    for (uint32_t i = 0; i < 32; ++i)
        res |= (((n & (1u << i)) >> i) << (31u - i));
    return res;
}
```