```
/**7(A)MSB
 * C program to check Most Significant Bit (MSB) of a number using bitwise operator
 */

#include <stdio.h>
#define BITS sizeof(int) * 8 // Total bits required to represent integer

int main()
{
    int num, msb;

    /* Input number from user */
    printf("Enter any number: ");
    scanf("%d", &num);

    /* Move first bit of 1 to highest order */
    msb = 1 << (BITS - 1);

    /* Perform bitwise AND with msb and num */
    if(num & msb)
        printf("MSB of %d is set (1).", num);
    else
        printf("MSB of %d is unset (0).", num);

    return 0;
}
//7(B)LSB
/**
 * C program to check Least Significant Bit (LSB) of a number using bitwise operator
 */

#include <stdio.h>

int main()
{
    int num;

    /* Input number from user */
    printf("Enter any number: ");
    scanf("%d", &num);

    /* If (num & 1) evaluates to 1 */
    if(num & 1)
        printf("LSB of %d is set (1).", num);
    else
        printf("LSB of %d is unset (0).", num);

    return 0;
}
```