1. Write a function called count1 that takes an unsigned char as an argument and returns the number of ones found in the binary representation of the variable.
2. Write a function called set that takes two arguments: an unsigned char, $x$, and an int, $i$. Set the bit at index $i$ of $x$ to one.
3. Write a function called clear that takes two arguments: an unsigned char, $x$, and an int, $i$. Set the bit at index $i$ of $x$ to zero.
4. Write a function called print_bin that takes an int as an argument and prints its binary representation to stdout.
5. Write a function called is odd that takes an int, $x$, as an argument. Return 1 if $x$ is odd, and return 0 if $x$ is even. Do not use the modulus operator.
6. Write a function called abs that takes an int, $x$, as an argument. If $x$ is negative, perform the twos compliment operation on the integer and return the result. Otherwise, return $x$.
7. Write a function called swap_bytes that takes an unsigned short, $x$, as a parameter. Swap the two bytes in $x$ and return the result. For example: swap_bytes(0x4567) returns 0x6745.
