RE #2

Task:

Figure out what the code does.

Procedure:

We load in a 64 bit word and, do a byte reversal on it, and then perform a series on bitwise operations with a pattern of and, shift, or with a mask being applied.

I chose to translate the assembly code into a python script to get an idea of the operations being performed. The python code is provided in the git repo.

The output after each operation is as follows:  
  
1) 00000000000000000010101111110110

2) 11110110001010110000000000000000

3) 01101111101100100000000000000000

4) 10011111111010000000000000000000

5) 01101111110101000000000000000000

So, it seems like the code is reversing the bits of the data provided as input.

Googling the values for the mask brough up results for a bit reversal algorithm so I will take that as confirmation that the code is intended to reverse the bits.