Lab 08 - Comparison Algorithm

Direction: Submit the modified cpp file in the Labs directory of your github repository and/or as an attachment on Google classroom under the Lab08 assessment. The submission must be modified cpp file.

Complete the following objective

1. Write a void function named `LE()` whose header is

```
void LE(bool a[],bool b[],bool r[])
```

Given that all three array parameters have a size of 32, the function assigns all zeros to the elements of r only if a is less than or equal to b given that a and b both represent binary unsigned integers. The arrays reads from most significant to least significant (i.e the first element is the most significant bit and the last element is the least significant bit). For instance, if $a = \{1,1,0,1\} \approx 3.5 \times 10^9$ and $b = \{1,1,1,0\} \approx 3.8 \times 10^9$ (the remaining elements from index 4 to 31 are all 0), the function will assign all zeroes to r. It does not matter what is stored in r if a is greater than b as long as it is not all zeroes. You will receive extra credit if you can define the function by using at most a a single loop and a single simple if statement.