

Online Assignment on Bitwise operations (B1)

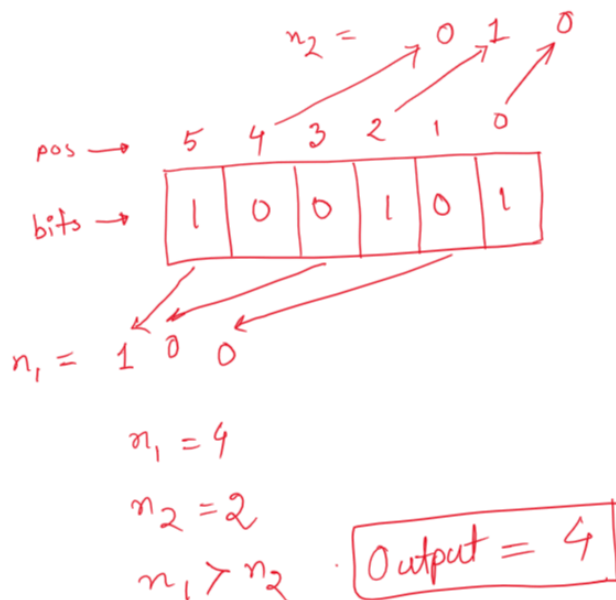
Solve the problem below. You have **20 minutes**. After you are done, rename the file containing your source code as your student ID (so, if your student ID is 2005001, the name of your file should be **2005001.c**). Then submit that file to Moodle. Make sure you submit a file containing the source code.

Failure to not follow these instructions will result in penalties.

Problem 1.

- Write a C program that takes an unsigned integer number as input, then forms two new numbers **n1** and **n2**. **n2** is made with the bits of the **even** positions, and **n1** is made with the bits of the **odd** positions. Find the number that is bigger among **n1** and **n2**.

Example:



Input	Output
37	4
5	3
8	2
299	17

N.B.

- ★ You *must* use *bitwise operators* to solve the problem.
- ★ You *can* assume that the provided input will *always* be valid.
- ★ *Do not assume the length of integer variables.*
- ★ *You cannot use array to solve the problem.*