ComputeXOR

static int computeXOR(int n)

    {

        // If n is a multiple of 4

        if (n % 4 == 0)

            return n;

        // If n%4 gives remainder 1

        if (n % 4 == 1)

            return 1;

        // If n%4 gives remainder 2

        if (n % 4 == 2)

            return n + 1;

        // If n%4 gives remainder 3

        return 0;

    }