**Q:-1**

**Set ith bit**

Send Feedback

You are given two integers N and i. You need to make ith bit of binary representation of N to 1 and return the updated N.

Counting of bits start from 0 from right to left.

**Input Format :**

Two integers N and i (separated by space)

Output Format :

Updated N

**Sample Input 1 :**

4 1

**Sample Output 1 :**

6

**Sample Input 2 :**

4 4

**Sample Output 2 :**

20

**Q:-2**

**Unset ith bit**

Send Feedback

You are given two integers N and i. You need to make ith bit of binary representation of N to 0 and return the updated N.

Counting of bits start from 0 from right to left.

**Input Format :**

Two integers N and i (separated by space)

Output Format :

Updated N

**Sample Input 1 :**

7 2

**Sample Output 1 :**

3

**Sample Input 2 :**

12 1

**Sample Output 2 :**

12

**Q:-3**

**Find first set bit**

Send Feedback

You are given an integer N. You need to return an integer M, in which only one bit is set which at position of lowest set bit of N (from right to left).

**Input Format :**

Integer N

Output Format :

Integer M

**Sample Input 1 :**

7

**Sample Output 1 :**

1

**Sample Input 2 :**

12

**Sample Output 2 :**

4

**Q:-4**

**Turn off 1st set bit**

Send Feedback

You are given an integer Ni. You need to make first set bit of binary representation of N to 0 and return the updated N.

Counting of bits start from 0 from right to left.

**Input Format :**

Integer N

Output Format :

Updated N

**Sample Input 1 :**

4

**Sample Output 1 :**

0

**Sample Input 2 :**

12

**Sample Output 2 :**

8

**Q:-5**

**Clear All Bits From MSB**

Send Feedback

You are given two integers N and i. You need to clear all bits from MSB to ith bit (start i from right to left) and return the updated N.

Counting of bits starts from 0 from right to left.

**Input Format :**

Two integers N and i (separated by space)

Output Format :

Updated N

**Sample Input 1 :**

15 2

**Sample Output 1 :**

3

**Sample Output 1 Explanation :**

We need to clear all bits from MSB to ith bit i.e. clear all bits except 0th and 1st.

**Sample Input 2 :**

4 4

**Sample Output 2 :**

4