Write a Program in C using bitwise operator only .

1.Write a Program in C to set 3rd and 2nd bit .
i/p: int n= 51 o/p : 63

2. Write a Program in C to set 0th and 5th bit .
i/p: int n= 128 o/p: 161

3. Write a Program in C to clear 3rd and 2nd bit .
i/p: int n= 63 o/p: 51

4.Write a Program in C to toggle 1st and 4th bit .
i/p: int n= 42 o/p: 56

5. Write a Program in C to delete 0th bit .
i/p: int n= 170 o/p: 85

6. Write a Program in C to delete 0th, 1st , 2nd bit .
i/p: int n= 511 o/p: 63

7. Write a Program in C to delete 2nd bit .
i/p: int n= 39 o/p: 19

8. Write a Program in C to delete 5th bit .
i/p: int n= 99 o/p: 35

----------$ Pawan KY

Hints:

How to delete bit in num :

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1. to delete left most bit

: <<

2. to delete right most bit

: >>

3. to delete in b/w : it’s very tricky

// need to write logic with help of [>> , << , |]

Ex.

WAP in C to delete 3rd bit in unsigned int num:

unsigned int n= 50;

// i/p : 50

0000 0000 0000 0000 0000 0000 0011 0010

// o/p: 26

0000 0000 0000 0000 0000 0000 0001 1010

How to delete bit : try to understand

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1st 3 bit need to store . n1=n<<29;
n1=n1>>29;

then delete rightmost 4 bit , n2= n>>4 ;
then left shift 3 times . n2=n2<<3;
then bitwise OR // n=n1|n2;

i/p: is 50 , 3rd bit need to delete .

0000 0000 0000 0000 0000 0000 0011 0010

Step1. n1= n << 29;

0100 0000 0000 0000 0000 0000 0000 0000

Step2. n1 = n1>>29;

0000 0000 0000 0000 0000 0000 0000 0010

Step3. n2= n >> 4;

0000 0000 0000 0000 0000 0000 0000 0011

Step4. n2 = n2 << 3;

0000 0000 0000 0000 0000 0000 0001 1000

Step5. n= n1 | n2 ;

0000 0000 0000 0000 0000 0000 0000 0010
0000 0000 0000 0000 0000 0000 0001 1000

0000 0000 0000 0000 0000 0000 0001 1010

// o/p : 26

---*$ Coding Sirji*