





```
2717 = [4,3,4,4,5,5]
   Hex, odd occurring, even occurring : we xor between
             In XOR, XNOEX
                         XAY = YAX (... computable)
XA(YAZ) = (XAY) AZ (... ASSOCRATEUC)
           fendodd (int al), ent n)
       ર
                                    -) TC; O(n)
           Put res = 0;
                                       SC: OLI) Aux Spale
           for (int 1=0; icn; itt) }
               res = res ~ a[:];
          refu res:
 Vacration P/A: - Cirven on allay of n
                                            number that
  value
           en sang [1...n+1]. Every no appear exactly once.
  theree
         one number is Messing. Find the Missing number?
         = p= [1, 4, 3]
         0/p= 9
             (1 to n+1) number: -) (1 x 2 x 3 x 4) x (1x4, x3)
                                                             own assay
                                     only 2 comes out
                                         es other number occues
                                                                  2 trus
Frnd
      the two odd
                       appearing number:
                                                                   P
   = (3, 4, 3, 4, 5, 4, 4, 6, 4) ~
                                                                  £5,6%
   voed oddAppeaxing (Pnt all, int n)
      int x0R=0, rell=0, res1=0;
      for (ent e=0; e<n; 944) { xor = xor x a[9];}
                                                   > 0(n): TC
      int ln = (xOR) & (~ (xOR-1)) 7/ Right Most Rif sel of
                                                      0(1):50
      for ( ent 6=0; 150; 2+7)
                                           , XOR
         * ( (a[1] & An) ! = 0)
                                                    20x=)516=)...01(1-) 3
            sell : sell alis);
                                                    (xop-1) >1... 010 = 2
            883 = 8633 V alif
                                                   ~(x0R-1) = J ... 10[]
      9
     xe1m {xe31, xe)2);
                                                   (x0p) & (~(x0r-1))=1 1
                                                                    110 10/
                                              3-1011
                                                        4+3 100
                                                   the of sel
                      or Ferr
                                            " Sel 2 = (3, 8, 5, 4A) >) 5
                                 4-> 100
                       P-3110
                                           84 1= (4,4,4,4,4)
                            1030
                                                             {5H}
```

Find the only odd occurring

6) Power Set using Bitwise Operators :-Ip: S = "abe" "", "a", "b", 'E", "ab", "bi", ac", abc" cles 'n' character have 2" subsets n=3, 23=18 n=3, 500, 03-14 8-14 7 80/ 69 0 +07 DECEMBEL. counter (Decemal) Counter (Benaly) Subset 6K000000 001 "a" 2 010 value "b" varies 3 011 "ab" for my ч 0 40 100 "c" 27-1 \$ 101 "ac" 6 110 "bc" 7 . (11 "abc" 11069 point-Powerset (strong sto) int ne str. lengthes; 11 n=3 ent powerizes = pow(ein); 1/8 -for (ent c = 0; c< powersize; c++) 1002021 for(int 5=0; sen; s++) // abc of (to c & (1003) 7=0){ 1 & (1440) bacut (24x[]) 142° 1 1x1 11131 Ha 3 Parn+(in"). 22 (1220) 1×2° 7 1×1 endex