```
close node d
                                           // data
                                           node children (]; // node zato;
                                                            I node one;
                                           node () d
                                         children = new node (2);
                                            11 data
                                    3
                                              0-31/
                                             0 - (2^{32} - 1)
001
                       To use all numbers from 0 to (2 1),
                        trie of height his weed. V
                       trie of Bits is a birrary tree
  Find mox volve of A[i] ^A[j] & paire (i, j).
   Eg → A=[9, 8, 10, 7]
Bente > Vpaire (i, j) find A/i) 1 A/i)
      I take mox value. TC = O(N2)
     9 18 = 1001 1000 = 0001 = 1
                                               15 = 1111
                                                          = 1000 = 8 $
     9 N10 = 1001 N1010 = 0011 = 3
                                          77 1111 A 0 111
    917 = 1001 10111 = 1110=14
                                                          =0100=4
                                          11-> 1111 A 1011
                                                          =0010=2
                                         137 1111 1 101
    8110 = 2
                                                          20001 21
                                        14-> 1111 1111D
    817 = 15 V
    1017 = 1010 10111 = 1101 = 13
                                                       7 = D111 V
                                         15 = 1111
                                                      8=1000
    Making more significent bits = 1
                                        1111 ^ 1000 = 0 (11 = 7
    can be a better choice to get
     higher result.
```

A=
$$\begin{bmatrix} 5 & 10 & 15 & 20 & 25 & 30 \end{bmatrix}$$
 Height =5 $(0-31)$
 $5 = 0.0101$
 $10 = 0.1010$
 $15 = 0.1111$
 $20 = 10100$
 $25 = 11001$
 $30 = 11110$
 $30 = 11110$

And =15 $30 \checkmark$

And =15 $30 \checkmark$

And =15 $30 \checkmark$

Height =5 $(0-31)$

And =5 $(0-31)$

Height =5 $(0-31)$

Height =5 $(0-31)$

And =10 $(0-31$







