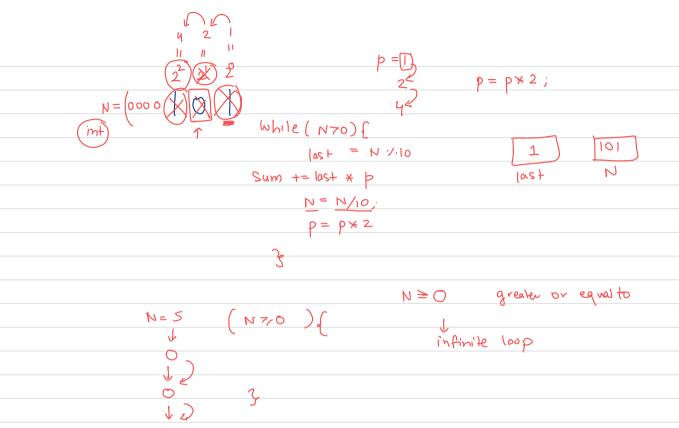
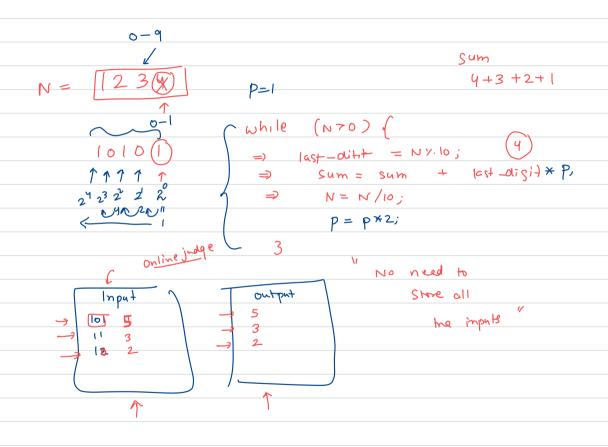
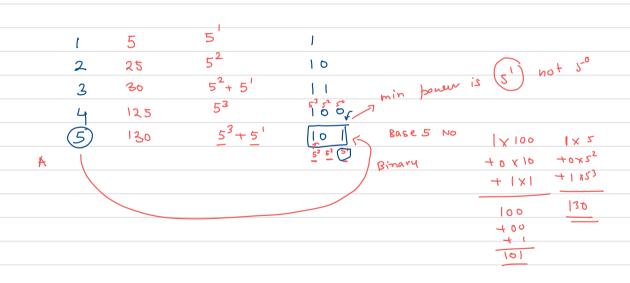
ARRAYS

Mexadecima Base-16





Given an integer A, find and return the Ath magic number. A magic number is defined as a number which can be expressed as a power of 5 or sum of unique powers of 5. First few magic numbers are 5, 25, 30(5 + 25), 125, 130(125 + 5),



Decimal to Binary Sum=0; 1100 1000 while (N 70) of +100 +0 1100 rem = N%2; = Sum = Sum + rem * P; N = N/2 ; P = P * 16;1100

```
static int decimalToBinary(int n){
                                                       100
         int p = 1;
         int sum = 0;
                                                       1000
         while(n>0){

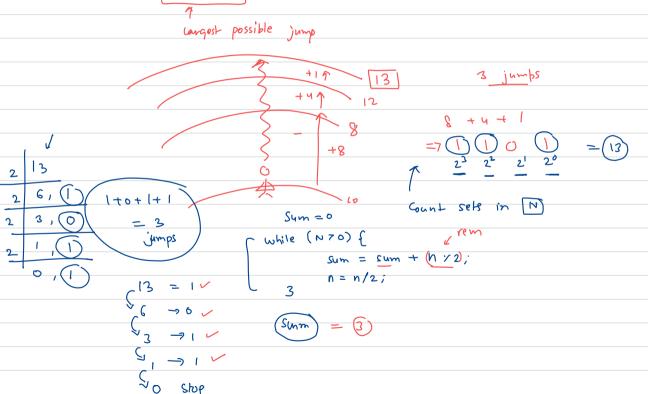
    int rem = n%2;

           sum = sum + (rem*p
             p = p*10;

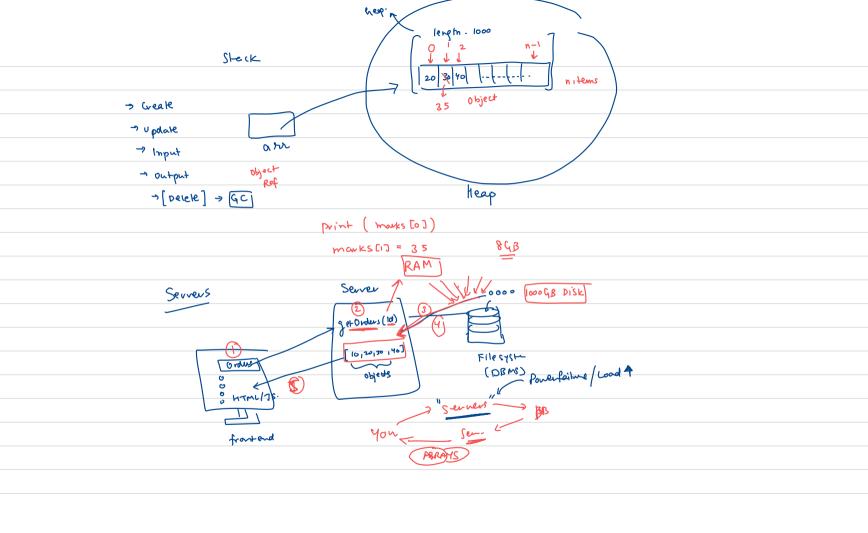
n = n/2;
                                              Sum = 0 + 0x1 + 0x10
                                                     + 1×100
         return sum;
1 × 1000 1
       N = 12
                         1270
                                      OXI
```

```
625 125 25 5
                                        N=9
                                                 1001
static int magicNo(int n){
   \sqrt{\text{int p}} = 5; //5^1
   \sqrt{\text{int sum}} = 0;
                                                   0 + 1 7 5
                                                    + 0 x 25
    while(n>0){
                                                    +0 × 125
     + 1× 625
                                                     630
       n = n/2
                                          0,1
    return sum;
```

Live Challenge: There is fight going on at Level N above earth, there is superhero that wants to reach level N, but he can only jump in power of 2, what is min jumps he would need to reach level N.



ARRAY



Poss By value

Primitives are always capied

for objects, he object Ref are Copied.

the actual object can be modified from contrarer for.