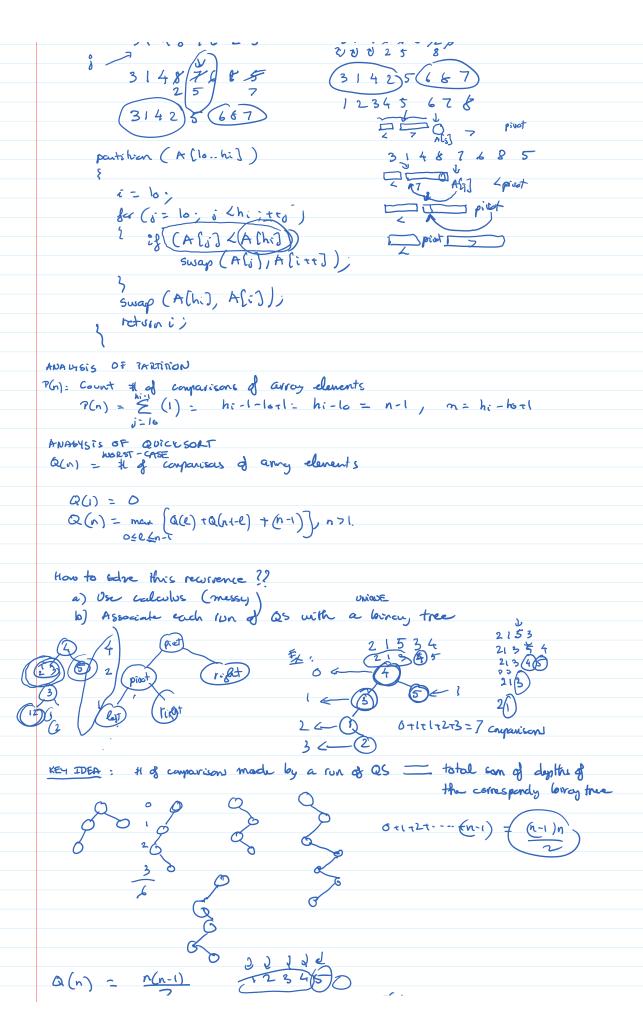
```
if ( = % 2 == 0)
                                               65 = 6.64
              >temp= pm (b, e/2, m)
return (temple temp) % on;
                                                   = b.(b2)~
                                                    6 14 = (b7)
                  temp = pm ( b, e/2, m);
                                                     b. 6= 6.63)
                  return (((temp/#temp) %m / b) %m;
                                                      b3 = b. b2
                                                       b= 6(6)2
       M(0) = -
       M(e) = 2 + 1 H(2) , e = 2 m
                  a-1 1-2° M(e)-0(e°1ge) -
                 6-2
                  d - 6
 Ex. QUICK SORT (TONY HOME)
  Pinde - conquer : clièbe / conquer / (combine MERGE \theta(1) 2H(\frac{n}{2}) \theta(n)
        Quick O(n) 2m(n) O
                                  pivot
       3148762(5)
       Z pivot (pivot) > pivot
     95 (A[b..hi]) n- hi-lot
        if (lo L hi)
        K = partition (A(lo.hi]); / [K - final Position of pint
      [ gs (A[ lo.- K-1] );
Q(n-1-l) (qs(A[kl.li]);
 HOW PARTITION WORKS.
                                  4 4 4 X Y
                                 314 × 76 15
20025 8
                                  (3142)5(687)
```



L= 2