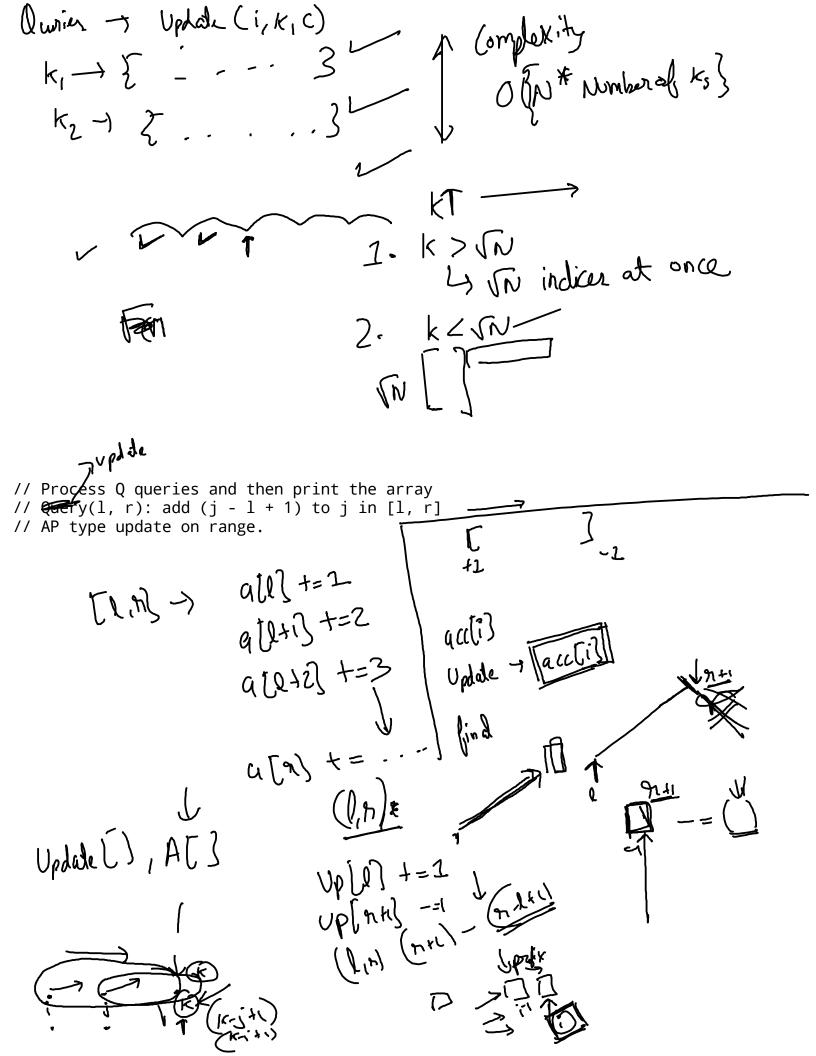
```
8 3
             1, 2, 3, 4, 6, 7 \Rightarrow 6 distinct toys that he plays with.
1 3
2 4
6 7
              cnt[i] => how many days toy i was used.
              ans = count of i where cnt[i] > 0.
  prefix[i] \Rightarrow a[0] + a[1] ... a[i].
    pref[r] += 1 => update +1 to 0...r
    pref[1 - 1] -= 1 => update -1 to 0..l-1
 // Given an array A, answer Q queries
 // Query: Range (or/xor/and) of the subarray [1, r].
  1. How to get range xor ?
           - range(1...r) and range(1...l-1)
  I can get xor of range(1, r) \Rightarrow range(1...r) \land range(1...l-1)
  2. what about or ?
   - is or invertible ?
           - no
  - how to solve this now ?
           1, 2, 3, 4
           xor(1, 4)
           2^0(bit_0) + 2^1(bit_1) + 2^2(bit_2).....
     a; 412
                                            Lyk (Bit), (lit)
Ly count of ON bit in this
house Using prefix sur
                                               091 -1 will have this het set on cnt >10
 BAKI
```

```
// Process Q queries and then print the array
// K is given
// Query(i, c): add c to \{i, i + k, i + 2*k ....\}
// all queries have common k.
   requirement: process query in like O(1) and finally get the answer in O(N).
                                                               K=3
                                  10 11 12 13 14 15
                5
                                 those indices that
                                        (1-1) 1-k lie in one group.
    Update
                                         15
                                   12
                                     (0
                                         K/3
   JK-1 J
     for(int i = 1; i <= n; i++) {
        A[i] = suff[i];
         if(i + k \le n) {
             suff[i + k] += suff[i];
         }
     }
                                              K-1
```



- // Process Q queries and then print the array
 // Query(l, r): add (j l + 1) to j in [l, r]
- // Query(1, 1): add (j 1 + 1) to j in [1, r] // AP type update on range. \P

Updale: for Rejent of do.

-> (1-e); ° (1-e); °

Med adice

+ (1-2) | pulollel += (1-2) | pulollel [91+1] -= (1-2)

pw[1][2] +=1
pw[1][nn] -=1





quory [hosh-me, in] }