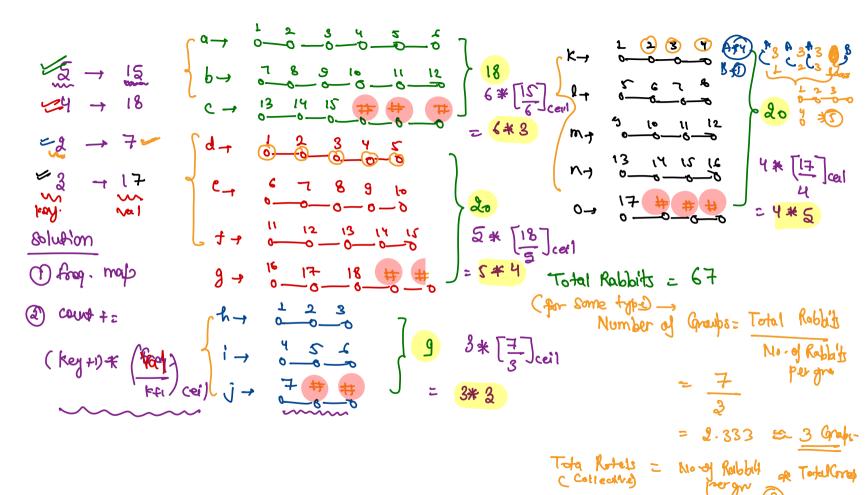
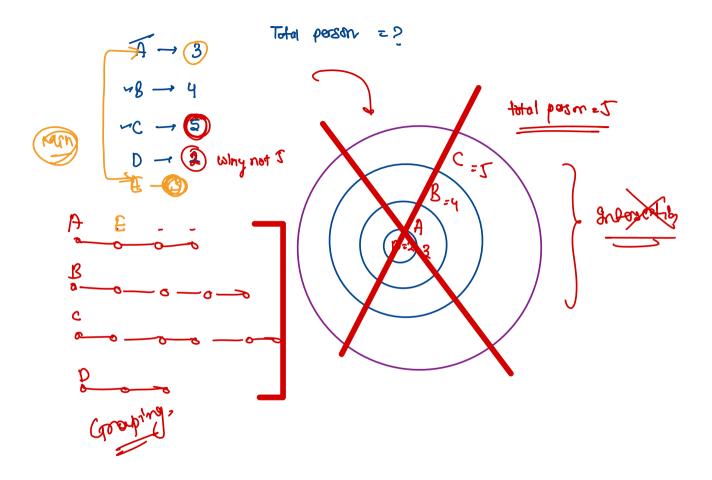
Date: 15th January 2022 1. Check anithmatic sequence: → Agenda -> 9 25 33 5 13 21 array -1. Check anithmodic Seq. 2. Rabbits in the forest 3. Recurring seq. In a foc. Min. Number Max. Number 4. Equivalent Subarrays 5. Pair with equal sum a.+3d --- a,+ (n-1)d 00+2d anthrooks seg -> Qo+d Given a Amery, Random order. Nor of Sterrock in an among. For anithmatic seq. On First term Max. Number = Min. Number + (n-1)el d-1 common diff. (n-1) d = Max. Number - Min. Number. n - no. of terms. @ when we one find = max - min After amon diffmore and min add Elemets m we can verify is array Hashset is AP or not.

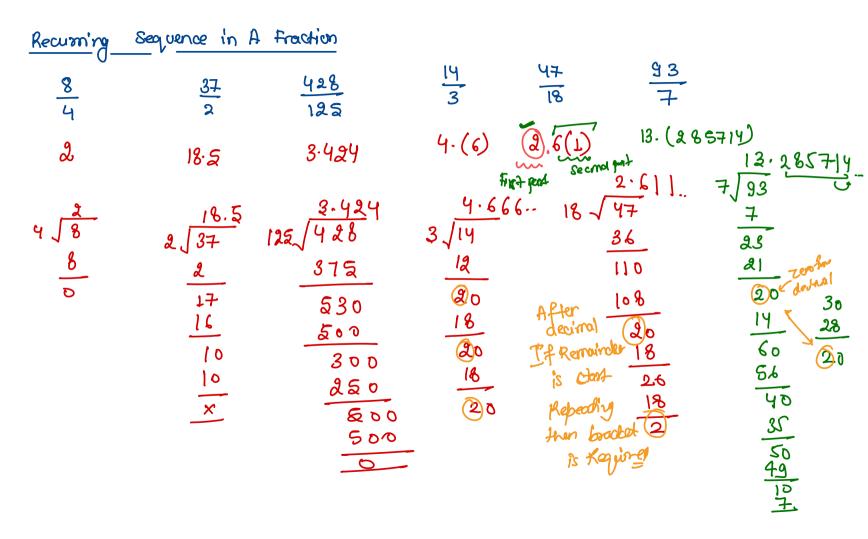
```
max = 33, min \rightarrow 1, n = 9
                                  public static boolean checkArithMaticSeq(int□ arr)
                     d=4
                                      // find min and max and add element in hashset
                                      if(arr.length <= 1) return true;
                                      HashSet<Integer> set = new HashSet<>();
                                      int min = Integer.MAX_VALUE;
                                      int max = Integer.MIN_VALUE;
                                      for(int val : arr) {
                                          min = Math.min(min, val);
                                          max = Math.max(max, val);
                                          set.add(val);
                                      int n = arr.length;
                                      int d = (max - min) / (n - 1);
                                      int sum = min;
                                      while(sum < max) {</pre>
                                          sum += d;
                                          if(set.contains(sum) == false) return false;
                                      return true:
```

Robbits in the forest: Rabbit am -Min - no. of Rabitsith Rabit, Strailar Rabbits provent in for est is arrive Total Rabbits (13) Rabbits new grouping.

p = 6 - 0 = 1 d 16 19 28 √2° → 60 → ~ ~4 -9 - v e 5 6 10 17 18 7 5 7 1 1 20 24 26 # 1 Total court = (30) √07 →2 → ~ V(I) →(3) ... V 2 4 3 2 4 4 4 4 4 4 19 25 26







Numerator second past Hrst. 13.285714 7 J 93 First part = Part Denominator z <u>93</u> 7 regnather is 0 or not check if if remainder = =0 --- one - First port else -> 1) add declimal in answer 1) change remainder to time. 13. (264513) - Rosult

978 ex 1-10(m) quotient (9) 9= n/d: =>3 divisor, 4 rumber (n) ~= ny,d! = (2) ans +=9: remod noon - (2) if (r==0) { while (x !=0) { <u>ි</u>ර පුර 7 * = 10 r= ry.d; odd bracket any += q;

Subarray n=10 distinct Elemet Find wing Hash Set = 6 - No. of dishind No. of subarrays failing while (itmu)

K distinct Element (while () _ acquire till size of howhro of & not t Include in nower and inone to want release until size of horkmorp is mouth toin If both loop is not visited

