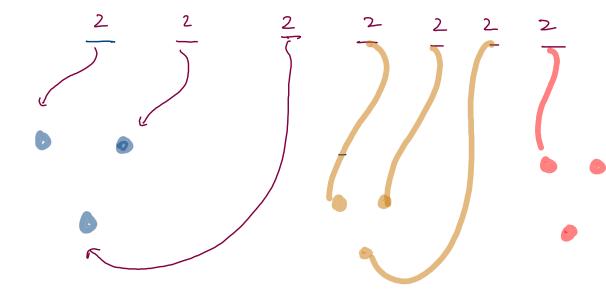
Check Arithmetic Sequence

21+4

781. Rabbits in Forest

There is a forest with an unknown number of rabbits. We asked n rabbits "How many rabbits have the same color as you?" and collected the answers in an integer array answers where answers[i] is the answer of the ith rabbit.

Given the array answers , return the minimum number of rabbits that could be in the forest.



ans us rabbit count

ans us rabbit
$$y = \left[\frac{10}{9}\right] = 12$$

$$6 * \left(\frac{9}{6}\right) = 12$$

$$5 - 9$$

$$5 + \left(\frac{15}{5}\right) = 15$$

$$4 - 15$$

int mr = 0:

return mr;

for(int key : map.keySet()) { int val = map.get(key); int gc = key + 1;

mr += gc * Math.ceil(val*1.0 / gc);

$$g \begin{bmatrix} 2.5 & 26 & 27 \\ 28 & 29 \end{bmatrix} \qquad h \begin{bmatrix} 30 & 31 & 32 \\ 33 & 34 \end{bmatrix} \qquad i \begin{bmatrix} 35 & 36 \\ 37 & 38 \end{bmatrix}$$

$$28 & 29 & 29$$

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$$29 &$$

 $\begin{bmatrix}
2 & 2 \\
3 & 4
\end{bmatrix}$ $\begin{bmatrix}
5 & 6 \\
7 & 8
\end{bmatrix}$ $\begin{bmatrix}
6 & 10 \\
11 & 12
\end{bmatrix}$

 $d \begin{bmatrix} 13 & 14 & 15 \\ 16 & 17 & 18 \end{bmatrix} e \begin{bmatrix} 19 & 28 & 21 & 22 \\ 23 & 24 \end{bmatrix}$

$$\frac{160}{16} \quad \frac{16}{28} \quad \frac{2425}{25} \quad \frac{97}{7} \quad \frac{7}{12}$$

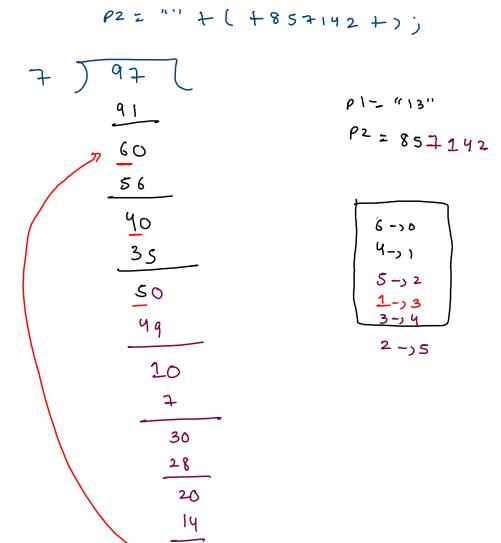
$$6.25 \quad 0.4 \quad 97 \quad 13.(857102) \quad 0.59(3)$$

$$\frac{31}{13} \quad \frac{31}{13} \quad \frac{31}{12} \quad \frac{31$$

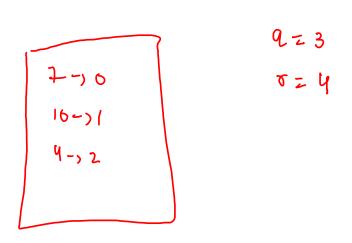
```
100
                                              int ren = n.1.d;
           10
                         2 42 5
                          25
16
           25
                                              ans += q;
                                               Styling Sty;
                           97
            0.4
6.25
                                               ij (ron = = 0) {
                                                else
                                                     while (ron! =0) {
                                                          h = rcm = 10;
                                                           9= n/dj
                                                          ran = n.1.d;
                                                          S+6 + = q;
```

int q = n/d;

```
while(rem != 0) {
    if(map.contains(rem) == true) {
        int pos = map.get(rem);
        p2 = p2.substring(0,pos) + "(" + p2.substring(pos) + ")";
        break;
    }
    map.put(rem,p2.length());
    num = rem*10;
    q = num / den;
    p2 += q;
    rem = num % den;
}
```



```
while(rem != 0) {
    if(map.contains(rem) == true) {
        int pos = map.get(rem);
        p2 = p2.substring(0,pos) + "(" + p2.substring(pos) + ")";
        break;
    }
    map.put(rem,p2.length());
    num = rem*10;
    q = num / den;
    p2 += q;
    rem = num % den;
}
```



12

70

60

$$P1 = "0"$$

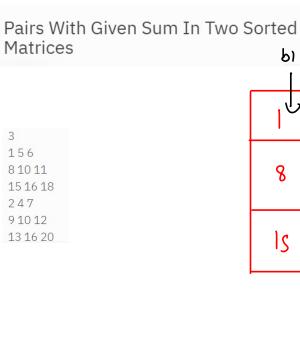
100

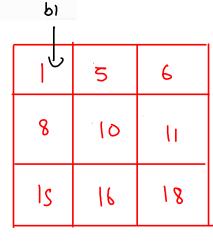
 $P2 = 583$

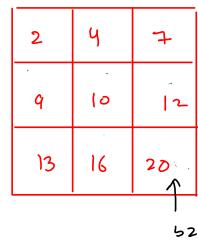
40

 $P2 = 583$

```
long q = num / den;
    long rem = num % den;
                                           5->0
    String p1 = q + "";
                                           2-11
    String p2 = "";
                                                                             12
                                                                                                      n = 80
if(rem == 0) {
   //this division is settled
   if(flag == true) {
      return p1;
   else {
                                                                                                      d= 12
      return "-" + p1;
else {
                                                                     9 = 6
   while(rem != 0) {
                                                                                                                         P1= 6
      if(map.containsKey(rem) == true) {
         int pos = map.get(rem);
         p2 = p2.substring(0,pos) + "(" + p2.substring(pos) + ")";
                                                                                                                       P2 = 416
         break;
      map.put(rem,p2.length());
      num = rem*10;
                                                                                    P2 = 41 + "('+6+")"
      q = num / den;
      rem = num % den;
      p2 += q;
                                                                                                         41 (6)
                                                        6. 41 (6)
```







1 20
5 16
8 13
Distinct pairs
$$T: O(n^2)$$
 $S: O(1)$
 $S: O(n^2)$