

Problem with given diff.

ans []= \ 5, 10, 3, 2, 50, 80 \ b = 78

Bowle force arr[]: (5), 10, 3, 2, 50, 80) B = 78 for (int i=0; i<n; i++) for (i-t j=i+1; j<n;j++)] (arrij-arrij) = = B 1) arrij - arrij = = B) return true. return false;

am [7: {5 10, 3, 2, 50, 80} B = 45 orr[7 = { 2,35 , 50,80 } Si ei Can't be applied wwie (si< ei) of (arriei] - arrisi] = = B)
return toue; else if (arrlei] - arrlais 7 B)

an
$$77: \begin{cases} 5, 10, 3, 2, 50, 80 \end{cases}$$
 $8 = 78$

$$5, 10, 3, 2, \\ pair => (x, y)$$

$$7 = 7 = 8 \Rightarrow y = x = 8$$

$$8 = 78$$

Produced

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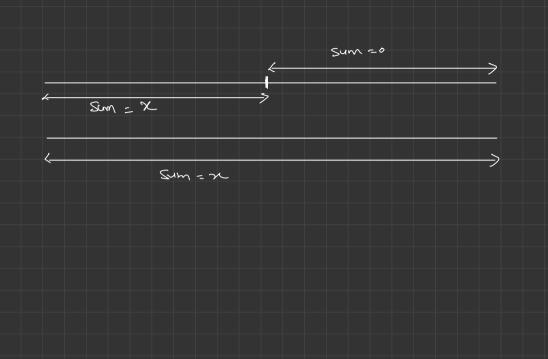
```
public int givenDifference(int []A, int n, int B) {
                                                           arr []: 5, 10, 3, 2, 50, 80 }
                                                                                                                B = 78
   HashSet<Integer> set = new HashSet<>();
   for (int i = 0; i < n; i++) {
                                                      pair (x,y)
    \begin{cases} & \text{int y1 = x - B;} \\ & \text{int y2 = x + B;} \end{cases}
                                                           x-y=b => y=x-b
       if (set.contains(y1) || set.contains(y2)) {
                                                           y-x=B=>y=x+B
          return 1;
                                                                                                        Set
       set.add(x);
   return 0;
          TC:OCN) p
SC:O(N)
```

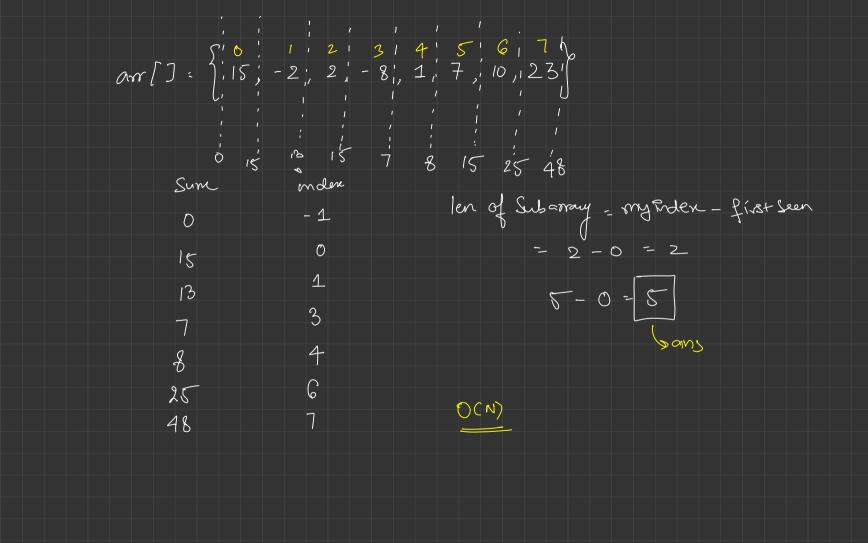
Array Pair divisible by K arr[]= \(\) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 \(\) K=5 (1,9) (2,8) (3,7) (4,6) (5,10)NOTE: when r==0, then r==0, "," o 2 coil be come metiple of K, hence of factor will pair (a,b) (a+b) % K = =0 a = x x K + x1 b: yxK+r2 (a+6) => (xxx+81) +(-yxx+82) $(a+b)^{3}/_{0}K==0$ = K* (x+y) + (01+82)

lægest Subarray with zem Sum

Bouk force

compute all subarroups sum, when sum = = 0, update monelen.





Eguliboium Index

a[] = [9,3,7,6,8,1,10] (sum[] = [0,9,12,19,25,33,34] rsum[] = [35,32,25,19,11,10,0]

Brute force

TC: OCN)

SC:O(N)

> O(1)

a[]=[]9,3,7,6,8,1,10] totalSum = 44 rum: total Sum - ISum - val

