$\{\ \}$
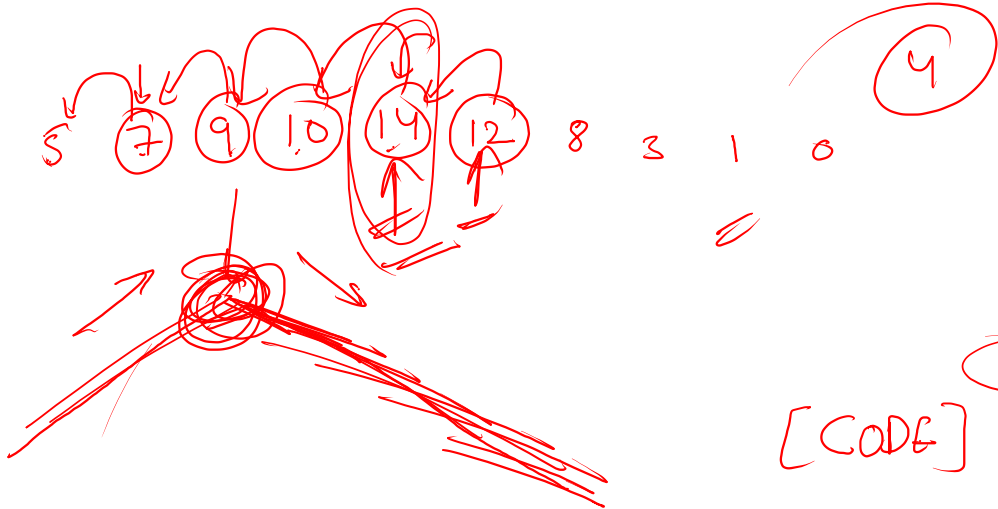
X 3 Y 7 9 14 17 24 32 35

8 1 7 4 14 9

[4, 4, 8, 9, 3, 0, 6]

0, 3, 4 4 6 6 8 9 0 { Akash Aakash }

{ 9 8 6 4 6 4 3 0 } =

(1 hr)

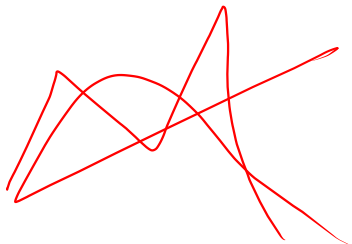{ 1, 3, 3 1, 4, 7, 7 7, 8 ∝

8 7 7 7 4 3 1 3 1   8 7 7 7 4 3 3 1 1

5 (7) (9) (10) (14) (12) 8 3 1 0 4

[CODE]

str =

S U R E N D R A

0 1 2 3 4 5 6 7

str . substring ($\underline{s}$, $\underline{e}$)
            9   2.   0

str . subs try (0 , 4)

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    int n = str.length();
    for(int i = 0; i < n; i ++) {
        for(int j = i; j < n; j ++) {
            System.out.println(str.substring(i, j + 1));
        }
    }
}
```

a b c d

d c b

a b c d

1 2 3 4 5 6

a
a b
a b c
a b c d

b
b c
c
d

X X
B

a
a b
a b c
a b c d

[-1 -1 2]
(-1) + (-1) + (2)

(-1 -1 2)

3 0 6

$(-1) + (-1) + (2)$

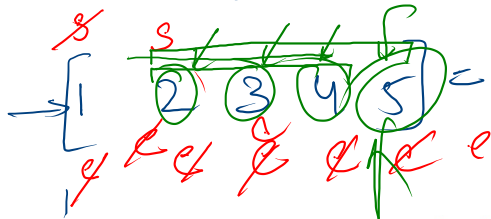$t < s$

t $t < = e$

$t + + z$

1   2

1 2   2 5

1 2 3

1 2 2 3

1 2 3 4 5

1 2

1 2 3

1 2 3 4

1 2 3 4 5

2
2 3
2 3 4 - -

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
        int[] arr = new int[n];
        for(int i = 0; i < n; i ++) arr[i] = scn.nextInt();

        System.out.println(isSumZero(arr));
    }

    public static boolean isSumZero(int[] arr) {
        int n = arr.length;
        for(int s = 0; s < n; s ++) {
            for(int e = s; e < n; e ++) {
                int sum = 0;
                for(int t = s; t <= e; t ++) sum += arr[t];
                if(sum == 0) return true;
            }
        }
        return false;
    }
}
```

8 3
~~1~~ 2 3 4 5
~~6~~ 2

Sum = ~~0~~ ~~2~~ 5

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

2
2 3

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for(int i = 0; i < n; i ++) arr[i] = scn.nextInt();

    System.out.println(isSumZero(arr));
}

public static boolean isSumZero(int[] arr) {
    int n = arr.length;
    for(int s = 0; s < n; s ++) {
        int sum = 0;
        for(int e = s; e < n; e ++) {
            sum += arr[e];
            if(sum == 0) return true;
        }
    }
    return false;
}
```
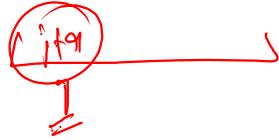
$$\downarrow \qquad \downarrow \quad \downarrow \qquad \qquad b$$

$$1 \quad 3 \quad 7 \quad 2 \quad 0 \quad 6 \begin{pmatrix} 3 & 2 & 6 & 8 & 9 \\ 6 & 7 & 8 & 9 & 10 \end{pmatrix} \quad \fbox{5}$$

$$0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5$$

$$ar \quad biv - (ar, 6, 10)$$

$$\fbox{itr}$$

$$0 \quad to \quad < 16 \qquad \fbox{10 ti}$$

$$\{ Bubble \ Sort \}$$