

Q4 add one

arr = [1, 2, 3, 4, 5]

ans = [1, 2, 3, 4, 6]

arr = [9], [9, 9]

ans = [1, 0], [1, 0, 0]

Approach

arr = [1, 2, 3, 4, 5] <sup>i</sup>

for (i = arr.length - 1 to 0) {  
 if (arr[i] != 9) {  
 arr[i] += 1;  
 break;  
 }

else {  
 arr[i] = 0

if (arr[0] == 0) {  
 arr = new int[arr.length + 1];  
 arr[0] = 1;  
 return arr;  
}

<sup>i</sup> <sup>i</sup> <sup>i</sup>  
[1, 9, 9]

[2, 0, 0]

<sup>i</sup> <sup>i</sup> <sup>i</sup>  
arr = [9, 9]  
[1, 0, 0]

```

Scanner scn = new Scanner(System.in);
int n = scn.nextInt();
int[] arr = new int[n];
for(int i=0; i<arr.length; i++){
    arr[i] = scn.nextInt();
}

int[] ans = AddOne(arr);
for(int i=0; i<ans.length; i++){
    System.out.print(ans[i] + " ");
}

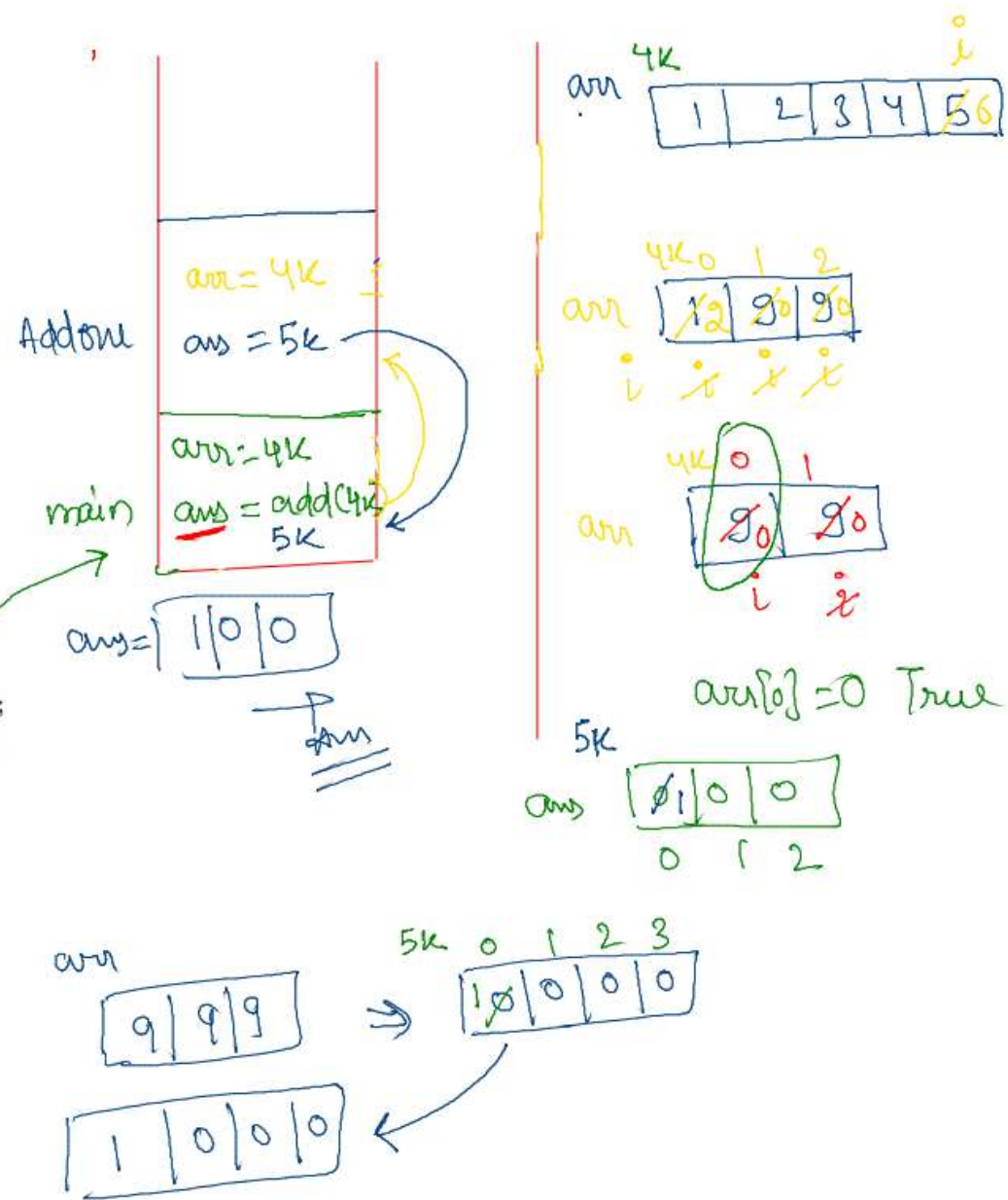
public static int[] AddOne(int[] arr){
    for(int i=arr.length-1; i>=0; i--){
        if(arr[i]!=9){
            arr[i] += 1;
            break;
        }else{
            arr[i]=0;
        }

        if(arr[0]==0){
            int[] ans = new int[arr.length + 1];
            ans[0]=1;
            return ans;
        }
    }

    return arr;
}

```

Imp  
must be asked



Question Print Pair

arr → 

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

  
0 1 2 3 4

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

1 2
1 3
1 4
1 5

2 3
2 4
2 5

3 4
3 5

4 5
-----

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

  
0 1 2 3 4

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

```
for (int i = 0; i < arr.length; i++) {  
    for (int j = i + 1; j < arr.length; j++) {  
        Syso( arr[i] — arr[j] );  
    }  
}
```

```

public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];

    for(int i=0; i<arr.length; i++){
        arr[i] = scn.nextInt();
    }

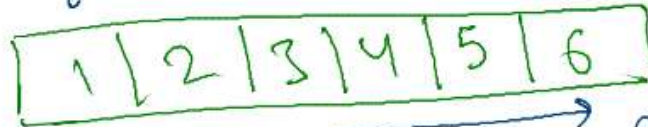
    for(int i=0; i<arr.length; i++){
        for(int j=i+1; j<arr.length; j++){
            System.out.println(arr[i] + " " + arr[j]);
        }
    }
}

```

Question

Find Combination Pair

arr →



sum =  
target

8

- 1 1
- 1 2
- 1 3
- 2 4
- 1 5
- 1 6

2 6  
3 5  
4 4

(arr[i] + arr[j] == sum)

↳ sysout → ;

```

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<arr.length; i++){
        arr[i] = scn.nextInt();
    }

```

```

    int sum = scn.nextInt();

```

```

    for(int i=0; i<arr.length; i++){
        for(int j=i; j<arr.length; j++){
            if((arr[i]+arr[j])==sum){
                System.out.println(arr[i]+" "+arr[j]);
            }
        }
    }

```

```

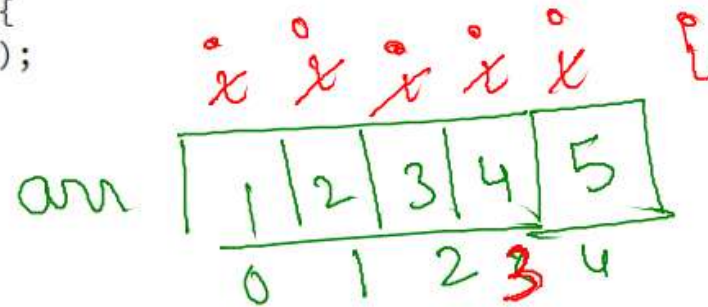
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. You

```

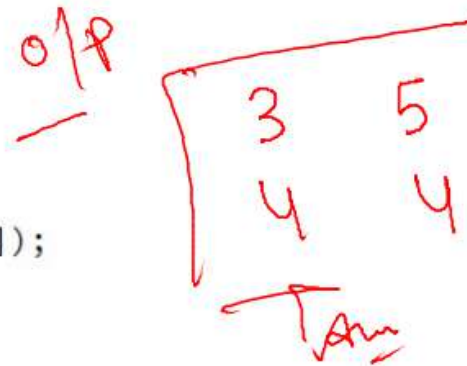
```

}

```



sum = 8





Ques

Greater than

me  
i i i i i  
arr = 

10	15	3	9	1
----	----	---	---	---

ans = 

1	0	3	2	4
---	---	---	---	---

```
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<arr.length; i++){
        arr[i] = scn.nextInt();
    }

    for(int i=0; i<arr.length; i++){
        int count=0;
        for(int j=0; j<arr.length; j++){
            if(arr[j]>arr[i]){
                count++;
            }
        }

        System.out.print(count+" ");
    }
}
```

arr → 

5	9	3	6	2
---	---	---	---	---

  
0 1 2 3 4

count = ~~0~~ 1 2 3 4

6/p = 

2	0	3	1	4
---	---	---	---	---

  
sol

Ques

Greater to Right

```
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<arr.length; i++){
```

```
        arr[i] = scn.nextInt();
```

```
    }
```

```
    for(int i=0; i<arr.length; i++){
```

```
        int count=0;
```

```
        for(int j=i+1; j<arr.length; j++){
```

```
            if(arr[i]<arr[j]){
```

```
                count++;
```

```
            }
```

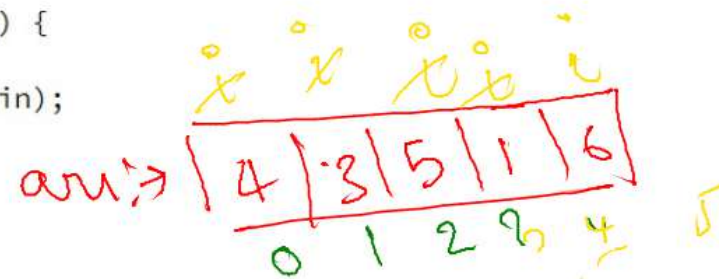
```
        }
```

```
        System.out.print(count+" ");
```

```
    }
```

```
    /* Enter your code here. Read input from STDIN. Print output to STDOUT.
```

```
    }
```



8/8 = 2

2

1

1

0