

2 byte

[illegible]

ITb

int a = 5

return

ITb

→ 1024 Gb

→ 1024 * 1024 mb

→ 1024 * 1024 * 1024 kb

→ $1024 * 1024 * 1024 \times 8$ byte

∞ numbers

code

(array is static means size of array can't be changed)

```
public static void main(String[] args) {
```

```
    int[] arr = new int[5];
```

```
    // arr_name[index] = value;
```

```
    arr[2] = 3;
```

```
    arr[1] = 5;
```

```
    arr[0] = 4;
```

```
    arr[3] = 7;
```

```
    arr[2] = 5;
```

```
    for (int i = 0; i < 5; i++) {
```

```
        System.out.print( arr[i] + " " );
```

```
    }
```

```
}
```

upgradation

→	0	0	3	0	0
→	0	5	3	0	0
→	4	5	3	0	0
→	4	5	3	7	0
→	4	5	5	7	0

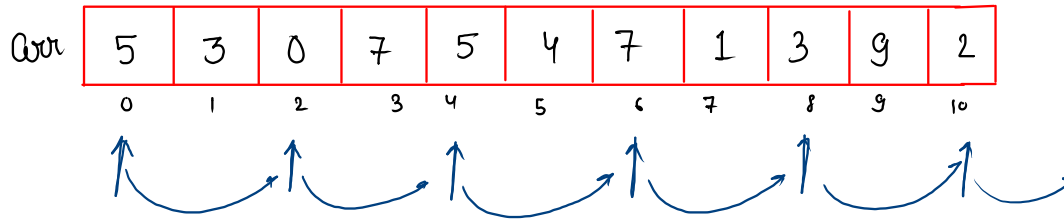
access

Print the array elements linewise

```
public static void main(String[] args) {  
    Scanner scn = new Scanner(System.in);  
    int n = scn.nextInt(); // 5  
    int[] arr = new int[n];  
    for (int i = 0; i < n; i++) {  
        arr[i] = scn.nextInt();  
    }  
  
    for (int i = 0; i < n; i++) {  
        System.out.println(arr[i]);  
    }  
}
```

Print Alternate Array Elements Linewise

n = 11



Code

```
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();
    }
    printAlternate(n, arr);
}

public static void printAlternate(int n, int[] arr) {
    for (int i = 0; i < n; i += 2) {
        System.out.println(arr[i]);
    }
}
```

Note:- for loop will only work using indexes. of array

Note:- i :- index // arr.length ;
arr[i] :- value

Print Array Elements Reverse linewise

$n = 5$

arr

1	2	3	4	5
0	1	2	3	4

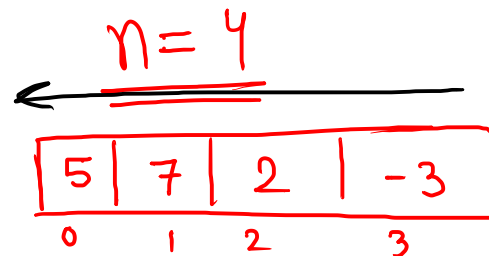
from $(n-1)$ to 0 by -1



code

```
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();  
    }  
    → printReverse(n, arr);  
}
```

```
public static void printReverse(int n, int[] arr) {  
    for (int i = n - 1; i >= 0; i--) {  
        System.out.print(arr[i] + " ");  
    }  
}
```



$i = 0, \text{ arr}[0] = 5$

$i = 1, \text{ arr}[1] = 7$

$i = 2, \text{ arr}[2] = 2$

$i = 3, \text{ arr}[3] = -3$

$i = 4, (4 < 4) \times$

$i = 3, (3 \geq 0) \checkmark$

$i = 2, (2 \geq 0) \checkmark$

$i = 1, (1 \geq 0) \checkmark$

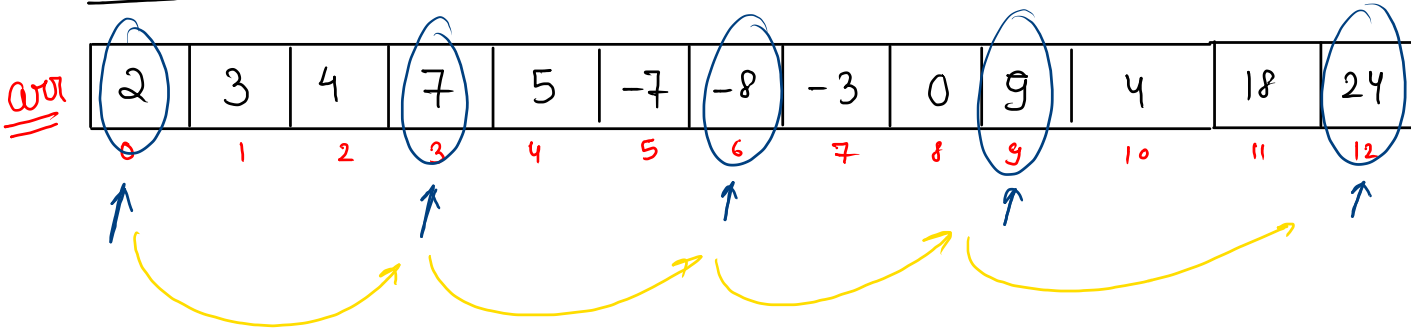
$i = 0, (0 \geq 0) \checkmark$

$i = -1, (-1 \geq 0) \times$

-3
2
7
5

Print Array element if index divisible by 3

n = 13



```
for (int i = 0; i < n; i++) {  
    if (i % 3 == 0) {  
        syso(arr[i]);  
    }  
}
```

```
for (int i = 0; i < n; i += 3) {  
    syso(arr[i]);  
}
```

Check if two arrays are identical?

how to check if 2 arrays are same

- size of both array's should be same
- value at each index should also be same

Ex:-

arr1 =

i	i	i	i	i	i	i
0	1	2	3	4	5	6
2	5	-7	3	9	18	4

arr2 =

2	5	-7	3	8	18	4
0	1	2	3	4	5	6

code

```
public static void main(String[] args) {  
    Scanner scn = new Scanner(System.in);  
    int n = scn.nextInt();  
    int[] arr1 = new int[n];  
    for (int i = 0; i < n; i++) {  
        arr1[i] = scn.nextInt();  
    }  
  
    int m = scn.nextInt();  
    int[] arr2 = new int[m];  
    for (int i = 0; i < m; i++) {  
        arr2[i] = scn.nextInt();  
    }  
  
    System.out.println(checkIdentical(n, arr1, m, arr2));  
}
```

```
public static boolean checkIdentical(int n, int[] arr1, int m, int[] arr2) {  
    if ( n == m ) {  
        for (int i = 0; i < n; i++) {  
            if ( arr1[i] != arr2[i] ) {  
                return false;  
            }  
        }  
        return true;  
    } else {  
        return false;  
    }  
}
```

arr1 =

0	1	2	3	4
5	3	2	-3	4

 $i=0, (5 \neq 5) \times$
arr2 =

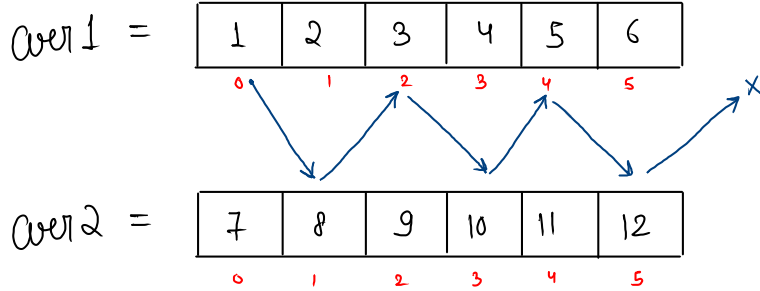
0	1	2	3	4
5	3	4	-3	3

 $i=1, (3 \neq 3) \times$
 $i=2, (2 \neq 4) \checkmark$

Note:- we will always check opposite condⁿ of what question is asking.

Print two arrays alternately

$$n = 6$$



o/p:-

1 8 3 10 5 12

index

0 → arr1
1 → arr2
2 → arr1
3 → arr2
4 → arr1
5 → arr2