\* Array\*

1. Declar Array?

Int a[]=new int[5];

2. Traverse array using for each?

**int** a[]={1,2,3,4};

**for** (**int** i : a) {

System.***out***.println(i);

}

Or String s= Arrays.toString(a);

3. Print duplicate element of Array?

**int** a[] = { 1, 2, 3, 4, 4 };

**for** (**int** i = 0; i < a.length; i++) {

**for** (**int** j = i + 1; j < a.length; j++) {

**if** (a[i] == a[j]) {

System.***out***.println(a[i]);

}

}

}

4. Print element in reverse order?

String s[] = { "1", "2", "3" };

**for** (**int** i = s.length - 1; i >= 0; i--) {

System.***out***.println(s[i]);

}

5. find fequescy of element?

String n[] = { "1", "1", "2", "3" };

**for** (**int** i = 0; i < n.length; i++) {

**int** count = 1;

**for** (**int** j = i + 1; j < n.length; j++) {

**if** (n[i] == n[j]) {

count++;

}

}

System.***out***.println(n[i] + " " + count);

}

}

6.Find Frequency

**int**[] a={2,4,3,6,6};

Map<Integer, Long> collect = Arrays.*stream*(a).boxed().collect(Collectors.*groupingBy*(Function.*identity*(),Collectors.*counting*()));

System.***out***.println(collect);

6. largest element?

**int** a[]={1,2,5,3};

**int** max=a[0];

**for**(**int** i=0;i<a.length;i++){

**if**(a[i]>max){

max=a[i];

}

}

System.***out***.println(max);

OR

**int** a[]={1,2,5,3};

**int** asInt = Arrays.*stream*(a).max().getAsInt();

System.***out***.println(asInt);

7. smallest element?

**int** a[]={1,2,5,3};

**int** min=a[0];

**for**(**int** i=0;i<a.length;i++){

**if**(a[i]<min){

min=a[i];

}

}

System.***out***.println(min);

8. sum of element?

**int** a[] = { 1, 2, 5, 3 };

**int** sum = 0;

**for** (**int** i = 0; i < a.length; i++) {

sum += a[i];

}

System.***out***.println(sum);

}

OR

**int** a[]={1,2,5,3};

**int** asInt = Arrays.*stream*(a).sum();

System.***out***.println(asInt);

9. Print array in descending order?

**int** a[] = { 1, 2, 5, 3 };

Arrays.*sort*(a);

**for**(**int** i=a.length-1;i>=0;i--){

System.***out***.println(a[i]);

}

OR

**int** a[]={1,2,5,3};

List<Integer> collect = Arrays.*stream*(a).boxed().sorted((i1,i2)->(i1>i2)?-1:(i1<i2)?1:0).collect(Collectors.*toList*());

System.***out***.println(collect);

10.Sort:

Arrays.sort(a)

OR

**int** a[]={1,2,5,3};

List<Integer> collect = Arrays.*stream*(a).sorted().boxed().collect(Collectors.*toList*());

System.***out***.println(collect);

10**. convert Array into ArrayList?**

String a[]={"10", "49", "15"," 8", "25"," 32", "12"};

ArrayList<String> al= **new** ArrayList(Arrays.*asList*(a));

**for**(String s:al){

System.***out***.println(s);

}

OR

List list=al.stream().filter(i->i.startsWith("1")).filter(i->i.length()>1).collect(Collectors.*toList*());

System.***out***.println(list);

11. Remove duplicate from Array?

**int**[] a = { 1, 2, 2, 4, 5 };

List list=Arrays.*stream*(a).distinct().boxed().collect(Collectors.*toList*());

System.***out***.println(list);

12. remove element from Array?

**int** [] a = { 1, 2, 2, 4, 5 };

List list=IntStream.*of*(a).boxed().collect(Collectors.*toList*());

list.remove(2);

System.***out***.println(list);

13. Even Number?

**int** a[]={1,3,3,5,32,6,75};

List list=IntStream.*of*(a).filter(i>i%2==0).boxed().collect(Collectors.*toList*());

14.sum of array?

**int**[] a = { 1, 2, 2, 4, 5 };

**int** l=IntStream.*of*(a).sum();

System.***out***.println(l);

15. max of array/

int l=IntStream.*of*(a).max().getAsInt();

System.***out***.println(l);

OR

Integer integer = Arrays.*stream*(a).boxed().max((a1,b)- >a1.compareTo(b)).get();

System.***out***.println(integer);

16. Copy element from one Array into another Array?

**public** **class** Test {

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

**int** a[]={10,2,31};

**int** b[]= **new** **int**[a.length];

**for**(**int** i=0;i<=a.length-1;i++){

b[i]=a[i];

}

**for** (**int** i : b) {

System.***out***.println(i);

}

17.Print startWith of int array

**int** a[]={2,24,3,6};

Predicate<Integer> p= i->i.toString().startsWith("2");

**for** (Integer integer : a) {

**if**(p.test(integer)){

System.***out***.println(integer);

}

}

1. remove duplicate element

2. print duplicate element

3.frequency of element

4. Print element in reverse order?

5. max element

6. min element

7. sum of element

9. Print array in ascending order?

10. Print array in descending order?

11. Print Even no?

12. Print startWith of int array