1. **Write a Java method that Reverse an array using another array.**

**public class** Reverse {  
 **static void** revereseArray(**int** arr[],**int** start ,**int** end){  
 **int** temp;  
 **while** (start<end)  
 {  
 temp= arr[start];  
 arr[start]=arr[end];  
 arr[end]=temp;  
 start++;  
 end--;  
 }  
 }  
 **static void** printArray(**int** arr[],**int** size)  
 {  
 **for** (**int** i=0;i<size;i++)  
 System.***out***.print(arr[i]+**" "**);  
 System.***out***.println();  
 }  
  
 **public static void** main(String[] args) {  
 **int** arr[]={1,2,3,4,5,6};  
 *printArray*(arr,6);  
 *revereseArray*(arr,0,5);  
 System.***out***.println(**"Reversed array is /n"**);  
 *printArray*(arr,6);  
}}

**output:**

**1 2 3 4 5 6**

**Reversed array is /n**

**6 5 4 3 2 1**

1. **Write a Java method that Clone an array to a backup array.**

**import** java.util.Arrays;  
**public class** clone{  
 **public static void** main(String[] args) {  
 **int** [] my\_array={10,50,80,77,60,98,45,22,14,47};  
 **int** [] new\_array=**new int** [10];  
 System.***out***.println(**"Source Array : "**+Arrays.*toString*(my\_array));  
 **for** (**int** i=0;i<my\_array.**length**;i++){  
 new\_array[i]=my\_array[i];  
  
 }  
 System.***out***.println(**"New Array: "**+Arrays.*toString*(new\_array));  
 }  
}

**output:**

**Source Array : [10, 50, 80, 77, 60, 98, 45, 22, 14, 47]**

**New Array: [10, 50, 80, 77, 60, 98, 45, 22, 14, 47]**

**3-Write a Java method that remove elements from an array.**

**import** java.util.Scanner;  
**public class** RemoveArrayElement {  
 **public static void** main(String[] args) {  
 Scanner in = **new** Scanner(System.***in***);  
 **int**[] numArray = {6, 8, 10, 34, 12, 2};  
 System.***out***.print(**"Enter Element to be deleted: "**);  
 **int** element = in.nextInt();  
  
 **for**(**int** i = 0; i < numArray.**length**; i++){  
 **if**(numArray[i] == element){  
 **for**(**int** j = i; j < numArray.**length** - 1; j++){  
 numArray[j] = numArray[j+1];  
 }  
 **break**;  
 }  
 }  
  
 System.***out***.println(**"Array elements after deletion-- "** );  
 **for**(**int** i = 0; i < numArray.**length**; i++){  
 System.***out***.print(**" "** + numArray[i]);  
 }  
 }

**output:**

**Enter Element to be deleted: 10**

**Array elements after deletion:**

**6 8 34 12 2 2**

**4-Write a Java method that repeatedly selects and removes a random entry from an array until the array holds no more entries.**

**import** java.util.Random;  
**public class** Main {  
 **public static void** main(String[] args) {  
 **int**[] array = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 };  
 *removeElements*(array);  
 }  
  
 **static void** removeElements(**int**[] array) {  
 Random r = **new** Random();  
 **while** (array.**length** > 0) {  
 **int** index = r.nextInt(array.**length**);  
 System.***out***.println(**"INDEX = "** + index + **", ELEMENT = "** + array[index]);  
 **int**[] array1 = **new int**[array.**length** - 1];  
 **for** (**int** i = 0; i < index; i++)  
 array1[i] = array[i];  
 **for** (**int** i = index; i < array.**length** - 1; i++)  
 array1[i] = array[i + 1];  
 array = array1;  
 }  
 }  
  
}

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