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| **package** com.company;  **import** java.util.Scanner;  **public class** Main {   **public static** Scanner *scanner* =**new** Scanner(System.***in***);  **public static void** main(String[] args) {  **int**[] array = *getintegers*(5);  **for** (**int** i = 0; i<array.**length**; i++){  System.***out***.println(**"number "** + i + **" element is : "** + array[i]);  }   *//FINDING AVERAGE* System.***out***.println(**"\n average is : "** +*averageArray*(array));   *//REPLACE ELEMENT BY VALUE* System.***out***.println(**"enter the value to be changed : "**);  **int** pos =*scanner*.nextInt();  System.***out***.println(**"enter the recent value : "**);  **int** rep =*scanner*.nextInt();  **int**[] arr2 = *replaceArrayByElement*(array, pos, rep);  **for** (**int** j=0; j < arr2.**length**; j++){  System.***out***.println(**"the updated array will be like : "** + arr2[j]);  }   *//REPLACE ELEMENT BY POSITION* System.***out***.println(**"enter the position to be changed : "**);  **int** pos1 =*scanner*.nextInt();  System.***out***.println(**"enter the recent value : "**);  **int** rep1 =*scanner*.nextInt();  **int**[] arr3 = *replaceArrayByposition*(array, pos1, rep1);  **for** (**int** j=0; j < arr2.**length**; j++){  System.***out***.println(**"the updated array will be like : "** + arr2[j]);  }   *//deleting element* System.***out***.println(**"Type the position to eliminate the VALUE"**);  **int** x = *scanner*.nextInt();  **int**[] arr4 = *removeElement*(array, x);  **for** (**int** j=0; j < arr2.**length**; j++){  System.***out***.println(**"the updated array will be like : "** + arr4[j]);  }   *//CONDITIONAL INSERTING  addElement*(array, 5656);  }  **public static int**[] getintegers(**int** number){  **int**[] value = **new int**[number];  System.***out***.println(**"enter the numbers"**);  **for** (**int** i = 0; i < number; i++){  value[i] = *scanner*.nextInt();  }  **return** value;  }  **public static int** averageArray(**int**[] number){  **int**[] arraAvg = number;  **int** nos = 0;  **for** (**int** i=0; i< number.**length**; i++){  nos = nos+number[i];  }  **return** nos;  }  **public static int**[] replaceArrayByElement(**int**[] arr, **int** element, **int** replaced){  **for**(**int** i=0; i<arr.**length**; i++){  **if** (arr[i] == element){  arr[i] = replaced;  }  }  **return** arr;  }  **public static int**[] replaceArrayByposition(**int**[] arr, **int** position, **int** replaced){  **for** (**int** i=0; i < arr.**length**; i++){  **int** x = i+1;  **if** (x == position){  arr[i] = replaced;  }  }  **return** arr;  }  **public static int**[] removeElement(**int**[] arr, **int** position){  **for** (**int** i=0; i < arr.**length** - 1; i++){  **int** x = i+1;  **if** (x == position){  arr[i]=0;  }  }  **return** arr;  }  **public static int**[] addElement(**int**[] arr, **int** inserted){  **for** (**int** i=0; i < arr.**length**; i++){  **if** (arr[i] == 0){  arr[i] = inserted;  } **else**{  System.***out***.println(**"array element cant be added dynamically, if no 0 is found"**);  }  }  **return** arr;  } } | | "C:\Program Files\Java\jdk-9.0.1\bin\java" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2017.3.4\lib\idea\_rt.jar=58594:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2017.3.4\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\HP\IdeaProjects\ArrayP\out\production\ArrayP com.company.Main  enter the numbers  10  20  30  40  50  number 0 element is : 10  number 1 element is : 20  number 2 element is : 30  number 3 element is : 40  number 4 element is : 50  average is : 150  enter the value to be changed :  10  enter the recent value :  100  the updated array will be like : 100  the updated array will be like : 20  the updated array will be like : 30  the updated array will be like : 40  the updated array will be like : 50  enter the position to be changed :  5  enter the recent value :  500  the updated array will be like : 100  the updated array will be like : 20  the updated array will be like : 30  the updated array will be like : 40  the updated array will be like : 500  Type the position to eliminate the VALUE  30  the updated array will be like : 100  the updated array will be like : 20  the updated array will be like : 30  the updated array will be like : 40  the updated array will be like : 500  array element cant be added dynamically, if no 0 is found  array element cant be added dynamically, if no 0 is found  array element cant be added dynamically, if no 0 is found  array element cant be added dynamically, if no 0 is found  array element cant be added dynamically, if no 0 is found  Process finished with exit code 0  the updated array will be like : 100  the updated array will be like : 5656  the updated array will be like : 30  the updated array will be like : 40  the updated array will be like : 500 |
| **package** com.company;  **import** java.util.Arrays; **import** java.util.Scanner;  **public class** Main {   **public static** Scanner *scanner* =**new** Scanner(System.***in***);  **public static void** main(String[] args)  {  **int**[] array = *getintegers*(5);  **for** (**int** i = 0; i<array.**length**; i++){  System.***out***.println(**"number "** + i + **" element is : "** + array[i]);  }   *//Sorting* System.***out***.println();  **int**[] arr6 = *sortAscending*(array);  **for** (**int** x=0; x < arr6.**length**; x++) {  System.***out***.println(**"number "** + x + **" element is : "** + arr6[x]);  }   System.***out***.println();  **int**[] arr7 = *sortDecending*(arr6);  **for** (**int** x=0; x < arr6.**length**; x++) {  System.***out***.println(**"number "** + x + **" element is : "** + arr7[x]);  }  }  **public static int**[] getintegers(**int** number)  {  **int**[] value = **new int**[number];  System.***out***.println(**"enter the numbers"**);  **for** (**int** i = 0; i < number; i++){  value[i] = *scanner*.nextInt();  }  **return** value;  }  **public static int**[] sortAscending(**int**[] arr)  {  Arrays.*sort*(arr, 0, arr.**length**);  **return** arr;  }  **public static int**[] sortDecending(**int**[] arr)  {  **int**[] reversed = **new int**[arr.**length**];  **for** (**int** i=0; i<arr.**length**; i++) {  reversed[i] = arr[arr.**length** - 1 - i];  }  **return** reversed;  } } | | enter the numbers  10  5  6  1  9  number 0 element is : 10  number 1 element is : 5  number 2 element is : 6  number 3 element is : 1  number 4 element is : 9  number 0 element is : 1  number 1 element is : 5  number 2 element is : 6  number 3 element is : 9  number 4 element is : 10  number 0 element is : 10  number 1 element is : 9  number 2 element is : 6  number 3 element is : 5  number 4 element is : 1 |
| **package** com.company;  **import** java.util.Arrays; **import** java.util.Scanner;  **public class** Main {   **public static** Scanner *scanner* =**new** Scanner(System.***in***);  **public static void** main(String[] args)  {  **int**[] array = *getintegers*(5);  **for** (**int** i = 0; i<array.**length**; i++){  System.***out***.println(**"number "** + i + **" element is : "** + array[i]);  }   System.***out***.println();  *//COPY THE CONTENT OF THE ARRAY* **int**[] arrn = *copyContent*(array);  **for** (**int** i = 0; i < arrn.**length**; i++){  System.***out***.println(**"number "** + i + **" element is : "** + array[i]);  }   System.***out***.println();  }  **public static int**[] getintegers(**int** number)  {  **int**[] value = **new int**[number];  System.***out***.println(**"enter the numbers"**);  **for** (**int** i = 0; i < number; i++){  value[i] = *scanner*.nextInt();  }  **return** value;  }   **public static int**[] copyContent(**int**[] arr){  **int**[] copied = Arrays.*copyOf*(arr, 5);  **return** copied;  }   **public static int**[] resizeArray(**int**[] arr){  **int**[] original = arr;   **int**[] basedata = **new int**[10];  **for** (**int** i = 0; i < original.**length**; i++){  basedata[i] = original[i];  }   **return** basedata;  } } | enter the numbers  10  20  30  40  50  number 0 element is : 10  number 1 element is : 20  number 2 element is : 30  number 3 element is : 40  number 4 element is : 50  number 0 element is : 10  number 1 element is : 20  number 2 element is : 30  number 3 element is : 40  number 4 element is : 50  Length of the array : 5 | |

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| **package** com.company;  **import** java.util.Scanner;  **public class** Main {   **private static** Scanner *s* = **new** Scanner(System.***in***);  **private static int**[] *baseData* = **new int**[10];   **public static void** main(String[] args) {  System.***out***.println(**"Enter 10 integers:"**);  *getInput*();  *printArray*(*baseData*);  *resizeArray*();  System.***out***.println(**"Enter 12 integers:"**);  *getInput*(); *// baseData[10] = 67; // baseData[11] = 34;  printArray*(*baseData*);   }   **private static void** getInput()  {  **for**(**int** i = 0; i < *baseData*.**length**; i++)  *baseData*[i] = *s*.nextInt();  }   **private static void** printArray(**int**[] arr)  {  **for**(**int** i = 0; i < arr.**length**; i++)  System.***out***.print(arr[i] + **" "**);  System.***out***.println();  }   **private static void** resizeArray()  {  **int**[] original = *baseData*;   *baseData* = **new int**[12];  **for** (**int** i = 0; i < original.**length**; i++)  *baseData*[i] = original[i];  }  } | Enter 10 integers:  1  2  3  4  5  6  7  8  9  10  1 2 3 4 5 6 7 8 9 10  Enter 12 integers:  1  2  3  4  5  6  7  8  9  10  11  12  1 2 3 4 5 6 7 8 9 10 11 12 |