EX 1. POZITIA UNUI ELEMENT CAUTAT INTR-UN ARRAY

**import** java.util.Scanner;  
  
**public class** MainArrays **{  
  
 public static void main(**String**[] *args*) {***///\* Gasirea pozitiei unui element cautat intr-un array\*/* Scanner ***scanner*** = **new** Scanner**(**System.*in***)**;  
*/\*Citim n\*/* System.*out*.println**(*"Cititi n : "*)**;  
 **int *n*** = ***scanner***.nextInt**()**;  
  
*// Citim array[n]* System.*out*.println**(*"Cititi "*** + ***n*** + ***" elemente: "*)**;  
 **int[] *a*** = **new int[*n*]**;  
 **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {  
 *a*[*i*]** = ***scanner***.nextInt**()**;  
 **}***// afisam array[n]* **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {** System.*out*.println**(*a*[*i*]** + ***" "*)**;  
 **}** System.*out*.println**()**;  
  
*// citim elementul cautat* System.*out*.println**(*"Cititi elementul cautat: "*)**;  
 **int *e*** = ***scanner***.nextInt**()**;  
  
*// presupunem initial ca acesta nu exista in array* **int *pozitie*** = -**1**;  
  
*// parcurgem array si cautam elementul* **for(int *i*** = **0**; ***i*** < ***n***; ***i*** ++**) {  
 if(*a*[*i*]** == ***e*) {  
 *pozitie*** = ***i***;  
 **}  
 }  
 if (*pozitie***>=**0) {** System.*out*.println**(*"Pozitia lui "*** + ***e*** + ***" este "*** + ***pozitie*)**;  
  
 **}else {** System.*out*.println**(*"Elementul nu exista in array."*)**;  
 **}  
 }  
}**

SAU CU WHILE

**import** java.util.Scanner;  
  
**public class** MainArrays **{  
  
 public static void main(**String**[] *args*) {***///\* Gasirea pozitiei unui element cautat intr-un array\*/* Scanner ***scanner*** = **new** Scanner**(**System.*in***)**;  
 */\*Citim n\*/* System.*out*.println**(*"Cititi n : "*)**;  
 **int *n*** = ***scanner***.nextInt**()**;  
  
*// Citim array[n]* System.*out*.println**(*"Cititi "*** + ***n*** + ***" elemente: "*)**;  
 **int[] *a*** = **new int[*n*]**;  
 **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {  
 *a*[*i*]** = ***scanner***.nextInt**()**;  
 **}***// afisam array[n]* **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {** System.*out*.println**(*a*[*i*]** + ***" "*)**;  
 **}** System.*out*.println**()**;  
  
*// citim elementul cautat* System.*out*.println**(*"Cititi elementul cautat: "*)**;  
 **int *e*** = ***scanner***.nextInt**()**;  
  
*// presupunem initial ca acesta nu exista in array* **int *pozitie*** = -**1**;  
  
*// parcurgem array si cautam elementul  
 // for(int i = 0; i < n; i ++) {  
 // if(a[i] == e) {  
 // pozitie = i;  
 // }  
 //}  
  
 // CU WHILE* **int *i*** = **0**;  
 **while (*pozitie*** < **0) {** System.*out*.println**(*"Testam pozitia "*** + ***i*** + ***" din array"*)**;  
 **if (*a*[*i*]** == ***e*) {  
 *pozitie*** = ***i***;  
 **}*i***++;  
 **}***// afisam rezultatul cautarii* **if (*pozitie***>=**0) {** System.*out*.println**(*"Pozitia lui "*** + ***e*** + ***" este "*** + ***pozitie*)**;  
  
 **}else {** System.*out*.println**(*"Elementul nu exista in array."*)**;  
 **}  
 }  
}**

SAU

**import** java.util.Scanner;  
  
**public class** MainArrays **{  
 public static int positionOfElementInArray(int[] *a***, **int *n***, **int *e*) {** *// presupunem initial ca acesta nu exista in array* **int *pozitie*** = -**1**;  
  
*// parcurgem array si cautam elementul  
 // for(int i = 0; i < n; i ++) {  
 // if(a[i] == e) {  
 // pozitie = i;  
 // }  
 //}  
  
 // CU WHILE* **int *i*** = **0**;  
 **while (*pozitie*** < **0** && ***i*** < ***n*) {** System.*out*.println**(*"Testam pozitia "*** + ***i*** + ***" din array"*)**;  
 **if (*a*[*i*]** == ***e*) {  
 *pozitie*** = ***i***;  
 **}  
 *i***++;  
 **}  
 return *pozitie***;  
  
 **}  
  
 public static void main(**String**[] *args*) {***///\* Gasirea pozitiei unui element cautat intr-un array\*/* Scanner ***scanner*** = **new** Scanner**(**System.*in***)**;  
 */\*Citim n\*/* System.*out*.println**(*"Cititi n : "*)**;  
 **int *n*** = ***scanner***.nextInt**()**;  
  
*// Citim array[n]* System.*out*.println**(*"Cititi "*** + ***n*** + ***" elemente: "*)**;  
 **int[] *a*** = **new int[*n*]**;  
 **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {  
 *a*[*i*]** = ***scanner***.nextInt**()**;  
 **}***// afisam array[n]* **for (int *i*** = **0**; ***i*** < ***n***; ***i***++**) {** System.*out*.println**(*a*[*i*]** + ***" "*)**;  
 **}** System.*out*.println**()**;  
  
*// citim elementul cautat* System.*out*.println**(*"Cititi elementul cautat: "*)**;  
 **int *e*** = ***scanner***.nextInt**()**;  
  
 **int *pozitie*** = ***positionOfElementInArray*(*a***, ***n*** , ***e*)**;  
*// afisam rezultatul cautarii* **if (*pozitie***>=**0) {** System.*out*.println**(*"Pozitia lui "*** + ***e*** + ***" este "*** + ***pozitie*)**;  
  
 **}else {** System.*out*.println**(*"Elementul nu exista in array."*)**;  
 **}  
 }  
}**