

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[] arr = new int[n];
        for(int i = 0; i < arr.length; i++)
            arr[i] = sc.nextInt();
        for(int i = 0; i < arr.length; i++)
            arr[i] = arr[i] - 1;
    }
}
```

[illegible]

$\begin{pmatrix} 0 & 1 & -1 & -1 \\ 1 & 2 & 8 & -7 \end{pmatrix}$

$\rightarrow \left[\frac{R_2}{\text{swap}} \right] \rightarrow \left[\frac{R_1 + R_2}{-9} \right]$

$\xrightarrow{\text{scale}}$

$\xrightarrow{\text{id mult } 2 \text{ w/ } R_2}$

$\xrightarrow{\text{id mult } 2 \text{ w/ } R_1}$

arr[0]
arr[1]
arr[2]
...
arr[9]

```
public static void main(String[] args) {
    Random rand = new Random(System.currentTimeMillis());
    int[] a1 = new int[10];
    int[] a2 = new int[10];
    for (int i = 0; i < a1.length; i++)
        a1[i] = rand.nextInt();
    for (int i = 0; i < a2.length; i++)
        a2[i] = rand.nextInt();
    System.out.println("a1:");
    for (int i = 0; i < a1.length; i++)
        System.out.print(a1[i] + " ");
    System.out.println();
    System.out.println("a2:");
    for (int i = 0; i < a2.length; i++)
        System.out.print(a2[i] + " ");
    System.out.println();
}
```

$\rightarrow \{1, 2, 3, 4, 5, 6, 7, 8, 9\} \leftarrow \text{C} \rightarrow$ Local Search

Local Search

[illegible]

$[1, 3, 4, 2, 6, 9, 1, 0, 4, 8]$

$$g = 0 \quad c = 9$$