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3. Implement Greedy search algorithm for Selection Sort
Python Code:
def selection_sort(array):
  length = len(array)
  for i in range(length - 1):
    minIndex = i
    for j in range(i + 1, length):
      if array[j] < array[minIndex]:</pre>
        minIndex = j
    array[i], array[minIndex] = array[minIndex], array[i]
  return array
# creating an empty list
Ist = []
# number of elements as input
n = int(input("Enter number of elements:"))
# iterating till the range
for i in range(0, n):
  ele = int(input())
  # adding the element
  lst.append(ele)
print(lst)
print("The sorted array is: ", selection_sort(lst))
Java Code:
import java.io.*;
import java.lang.*;
import java.util.*;
public class Selectionsort {
       static void selectionSort(int[] A) {
          int[] U = A.clone();
          int n = A.length;
          for (int i = 0; i < n - 1; i++) {</pre>
               int min idx = i;
               for (int j = i + 1; j < n; j++) {</pre>
                    if (A[j] < A[min idx]) {
                        min idx = j;
               int tmp = A[i];
               A[i] = A[min idx];
               A[\min idx] = tmp;
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System.out.printf("Selection Sort:\nUnsorted array: %s\nSorted
array: %s", Arrays.toString(U), Arrays.toString(A));

public static void main(String ar[])
{

System.out.println("Enter the size of array");
Scanner sc=new Scanner(System.in);
int n=sc.nextInt();
int[] arr=new int[n];
System.out.println("Enter Array elements");

for(int i=0;i<n;i++)
{
    arr[i]=sc.nextInt();
}
Selectionsort obj=new Selectionsort();
obj.selectionSort(arr);
}
</pre>
```

}