

Classwork

Selection Sort [Coding Ninjas]

Question link:-

https://www.codingninjas.com/studio/problems/selection-sort_981162?leftPanelTab=0

The screenshot shows the Coding Ninjas Studio interface. On the left, the 'Current Submission' panel indicates the solution is 'Accepted' with 6/6 test cases passed. It shows an experience of 40/40, a 0% penalty, and a runtime of 1084 ms. A runtime graph shows the solution is 18.21% better than others. The right panel displays the Java code for the selectionSort method.

```
1 import java.util.* ;
2 import java.io.*;
3 public class Solution {
4     public static void selectionSort(int arr[], int n) {
5         // Write your code here.
6         for(int i=0;i<n-1;i++){
7             int minIndex=i;
8             for(int j=i+1;j<n;j++){
9                 if(arr[j]<arr[minIndex]){
10                     minIndex=j;
11                 }
12             }
13             int temp=arr[minIndex];
14             arr[minIndex]=arr[i];
15             arr[i]=temp;
16         }
17     }
18 }
```

Java Code

```
import java.util.* ;
import java.io.*;
public class Solution {
    public static void selectionSort(int arr[], int n) {
        // Write your code here.
        for(int i=0;i<n-1;i++){
            int minIndex=i;
            for(int j=i+1;j<n;j++){
                if(arr[j]<arr[minIndex]){
                    minIndex=j;
                }
            }
            int temp=arr[minIndex];
            arr[minIndex]=arr[i];
            arr[i]=temp;
        }
    }
}
```

