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Insertion Sort Java Assignment 02

In the Java programming language, there are many sorting algorithms that can be used to sort arrays and such anyway you want. Here we will be talking about the sorting method Insertion. Insertion sort uses keys to sort. The sort will pick a key which is picked from the elements you are sorting, and it will compare the key with other elements to see if its greater or less than the key. By doing so, it will organize the elements in the correct order in size. You would use insertion sort when there is a small number of elements needed to be sorted. A real-life example would be how tailors use insertion sort with arranging shirts in a cupboard since they arrange shirts by size. Below is a sample code for the Insertion sort:

public int[] insertionSort(int[] arr)

for (x = 1; j < arr.length; x++) {

int key = arr[j]

int i = x - 1

while (i > 0 and arr[i] > key) {

arr[i+1] = arr[i]

i -= 1

}

arr[i+1] = key

}

return arr;