**TAG SORT**

**CODE:**

def tag\_sort(arr):

**# Step 1:** Create a list of tags (indices)

n = len(arr)

tags = list(range(n)) # Initialize tags to index values

**# Step 2**: Sort the tags based on corresponding values in arr

for i in range(n):

min\_index = i

for j in range(i + 1, n):

if arr[tags[j]] < arr[tags[min\_index]]:

min\_index = j

# Swap the tags to reflect the sorted order

tags[i], tags[min\_index] = tags[min\_index], tags[i]

**# Step 3:** Use the sorted tags to reorder the array

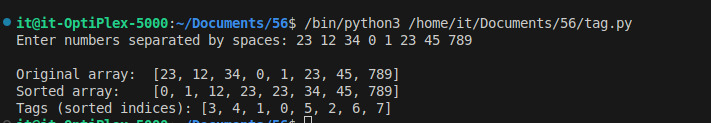
sorted\_arr = [arr[tags[i]] for i in range(n)]

return sorted\_arr

**INPUT:**

Original Array:[23,12,34,0,1,23,45,789]

**OUTPUT :**

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