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CSCI 580 Artificial Intelligence

Problem: write a python script to find the median in a given dataset with datatype list.

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```
my_list = [20, 89, 7, -23, 61, 34, 0, -9, -3, -64, 203, 2, 34, 25, 180, -99, -45, 8,
my_list2 = [1,2,3,]
```

```
my_list.sort()
# med = my_list[int((len(my_list)))/2]
# print(med)
size = len(my_list)
print(my_list)
if size % 2 == 0:
    evenMed = int((len(my_list))/2)
    evenMed2 = evenMed-1
    print(f"Middle Index: {evenMed}")
    evenMed = my_list[evenMed]
    evenMed2 = my_list[evenMed2]
    avg = (evenMed + evenMed2) / 2
    print(f'Median: {avg}')
else:
    oddMed = int((len(my_list))/2)
    oddMed = my_list[oddMed]
    print(f'Median: {oddMed}')
```

```
[-99, -64, -55, -45, -23, -9, -3, 0, 2, 7, 8, 17, 20, 25, 34, 34, 43, 61, 89, 180, 203]
Median: 8
```



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