

INSERTION SORT SEM FLAG

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS Filter Code
[Running] python -u "c:\Users\andre\OneDrive\Documentos\IFTM\Estrutura de Dados II\Atividades\Atividade05.py"
Antes do insertionSort com numeros ja ordenados:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
-----
Ordenando o vetor.....
Apos o insertionSort:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
Tempo de execucao: 0.000015 segundos
-----
Nova interacao:
Antes do insertionSort com numeros nao ordenados:
[196, 140, 82, 148, 78, 93, 77, 58, 111, 65, 45, 40, 193, 90, 97, 31, 54, 42, 161, 153]
-----
Ordenando o vetor.....
Apos o insertion sort:
[31, 40, 42, 45, 54, 58, 65, 77, 78, 82, 90, 93, 97, 111, 140, 148, 153, 161, 193, 196]
Tempo de execucao: 0.000031 segundos
-----
[Done] exited with code=0 in 0.262 seconds
```

INSERTION SORT OTIMIZADO

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS Filter Code
[Running] python -u "c:\Users\andre\OneDrive\Documentos\IFTM\Estrutura de Dados II\Atividades\Atividade05part2.py"
Antes do insertionSort com numeros ja ordenados:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
-----
Ordenando o vetor.....
Apos o insertionSort:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
Tempo de execucao: 0.000010 segundos
-----
Nova interacao:
Antes do insertionSort com numeros nao ordenados:
[73, 25, 87, 73, 35, 28, 192, 142, 30, 78, 60, 32, 191, 159, 64, 194, 191, 56, 176, 143]
-----
Ordenando o vetor.....
Apos o insertion sort:
[25, 28, 30, 32, 35, 56, 60, 64, 73, 73, 78, 87, 142, 143, 159, 176, 191, 191, 192, 194]
Tempo de execucao: 0.000025 segundos
-----
[Done] exited with code=0 in 0.245 seconds
```