```python
import matplotlib.pyplot as plt


# Input sizes and average times

sizes = [5, 10, 50, 100]

times = [0.0000018440, 0.0000014540, 0.0000049120, 0.0000094040]


# Plotting

plt.plot(sizes, times, 'bo-')  # 'b' for blue, 'o' for dots, '-' for line


# Adding title and labels

plt.title('Input Size vs Average Execution Time')

plt.xlabel('Input Size (N)')

plt.ylabel('Average Time (seconds)')


# Adding grid

plt.grid()


# Saving the plot

plt.savefig('insertion_sort_graph.png')


# Displaying the plot

plt.show()
```