Using Binary Search Tree, build a Phonebook storing system.

That can insert a contact(name and number) and also search for it. A structure code is given in [this collab file](https://colab.research.google.com/drive/1EF3RJQcnBaH-0maGRk_8hwSr1S_TzzBn?usp=sharing). However feel free to create your own helper function to achieve what is necessary.

Best of luck!

**SAMPLE INPUT:**

# Example usage:

phonebook = Phonebook()

phonebook.insert("Alice", "555-1234")

phonebook.insert("Bob", "555-5678")

phonebook.insert("Charlie", "555-9876")

phonebook.insert("David", "555-4321")

print("Phonebook entries:")

phonebook.display()

print("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX")

search\_name = "Bob"

result = phonebook.search(search\_name)

if result:

print(f"Phone number for {search\_name}: {result}")

else:

print(f"{search\_name} not found in the phonebook.")

print("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX")

phonebook.insert("Charlie", "666-9876")

print("Phonebook entries:")

phonebook.display()

**SAMPLE OUTPUT:**

Phonebook entries:

Alice: 555-1234

Bob: 555-5678

Charlie: 555-9876

David: 555-4321

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Phone number for Bob: 555-5678

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Phonebook entries:

Alice: 555-1234

Bob: 555-5678

Charlie: 666-9876

David: 555-4321