

COMP
110

Memory Diagrams

```
1  """First memory diagram"""
2
3  name: str = "Alyssa"
4  print("Hello " + name)
5  print("Bye " + name)
```

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2
3  name: str = "Alyssa"
4  print("Hello " + name)
5  print("Bye " + name)
```

Stack

Globals

Output

```
1  """Second Memory Diagram"""
2
3  val: int = 1
4  val2: int = val + 3
5  print(val + 1)
6  print(val2)
```

Stack

Globals

Output

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CQ00 - Memory Diagrams
Practice

```
1  """Challenge question."""
2
3  dozens: int = 2
4  singles: int = 3
5  print("I have " + str(dozens) + " dozen eggs")
6  print("plus " + str(singles) + " single eggs.")
7  total_eggs: int = dozens * 12 + singles
8  print("I have " + str(total_eggs) + " eggs.")
```

Stack

Globals

Output

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CQ01 - Memory Diagrams for Conditionals

```
1  """Challenge question."""
2
3  amount: float = 1.0
4  ✓ if amount == 2.0:
5  |     print("You have 2!")
6  ✓ else:
7  |     amount = amount + 1
8  ✓     if amount < 3.0:
9  |         print("Less than 3!")
10 ✓     else:
11 |         print("At least 3!")
12 print(str(amount))
```

Stack

Globals

Output