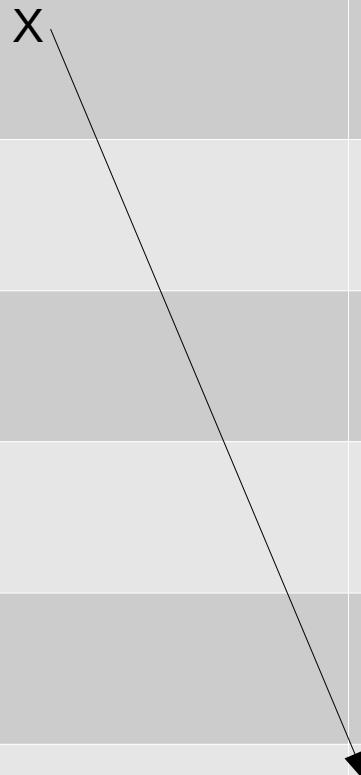


Statement	Namespace	Python's Memory
X = 10	X	
		10

The diagram illustrates the relationship between a variable in a Python namespace and its memory address. A table with three columns: 'Statement', 'Namespace', and 'Python's Memory'. The first row shows the statement 'X = 10'. The second row shows the variable 'X' in the namespace. The sixth row shows the memory address '10' in the 'Python's Memory' column. A diagonal arrow points from the 'X' in the namespace column to the '10' in the memory column, indicating that the variable 'X' points to the memory address '10'.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20		
		10



Statement	Namespace	Python's Memory
X = 10	X	
Y = 20		
		20
		10

A diagram illustrating the relationship between a variable in a namespace and its memory address. A line starts from the 'X' in the 'Namespace' column of the first row and points to the '10' in the 'Python's Memory' column of the sixth row.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
		20
		10

A diagram illustrating the mapping of a variable to a memory address. A thin black line originates from the 'X' in the 'Namespace' column of the first row and points diagonally down to the '10' in the 'Python's Memory' column of the sixth row. The '10' is positioned at the bottom left of its cell, while the '20' in the row above is positioned at the top right of its cell.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
		20
		10

The diagram illustrates the mapping of variables to memory. Two arrows originate from the 'Namespace' column: one from 'X' pointing to the value '10' in the 'Python's Memory' column, and another from 'Y' pointing to the value '20' in the 'Python's Memory' column. The table has alternating light and dark gray rows, and the memory values are placed in the light gray rows.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		20
		10

The diagram illustrates the state of Python's memory after a series of variable assignments. The table shows the sequence of statements and the resulting namespace and memory state. Arrows indicate the mapping from variables to their stored values in memory.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		20
		10

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		30
		20
		10

The diagram illustrates the state of memory for variable X. In the first row, 'X = 10' is assigned to memory address 10. In the third row, 'X = 30' is assigned to memory address 30. The second row, 'Y = 20', is assigned to memory address 20. The memory addresses 10, 20, and 30 are shown in the 'Python's Memory' column. Arrows indicate that the first 'X' points to 10 and the second 'X' points to 30.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		30
		20
		10

The diagram illustrates the state of memory for variable X. In the second row, 'X' is assigned the value 10. In the fifth row, 'X' is reassigned the value 30. The memory locations for 30, 20, and 10 are shown in the third column. A solid arrow points from 'X' in the second row to '20' in the fifth row, indicating the current value of X. A dashed arrow points from 'X' in the second row to '10' in the sixth row, indicating the previous value of X.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		30
		20
		10

The diagram illustrates the state of variables X and Y in Python's memory across different statements. The table shows the sequence of assignments and the corresponding memory addresses where the values are stored.

- Statement 1:** `X = 10`. Variable `X` is created and points to memory address 10.
- Statement 2:** `Y = 20`. Variable `Y` is created and points to memory address 20.
- Statement 3:** `X = 30`. Variable `X` is updated to point to memory address 30. The previous value of `X` (10) is now stored in memory address 10.

The final state of memory is shown in the last three rows of the table, where the values 30, 20, and 10 are stored at their respective memory addresses.

Statement	Namespace	Python's Memory
X = 10	X	
Y = 20	Y	
X = 30		
		30
		20
		10

