

C Memory Diagram

CODE:

1) `int *y, *x;`

2) `y = (int *) malloc(sizeof(int));`

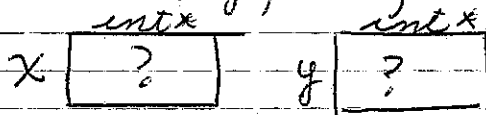
3) `*y = 9;`

4) `x = y;`

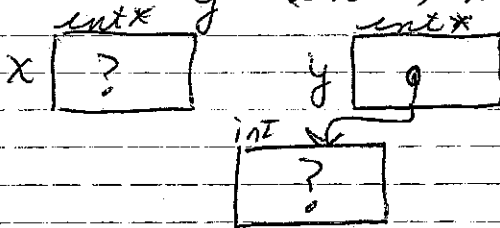
5) `*x = 2;`

After

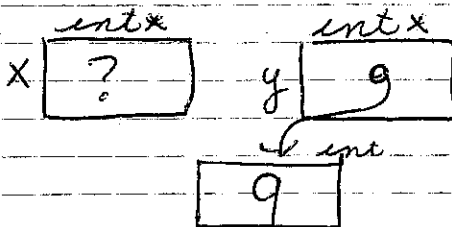
`int *y, *x;`



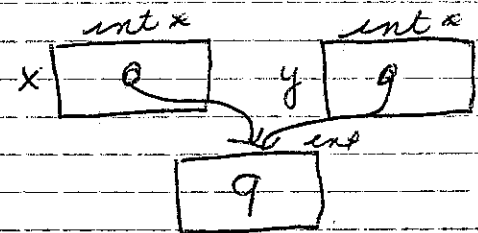
After `y = (int *) malloc(sizeof(int));`



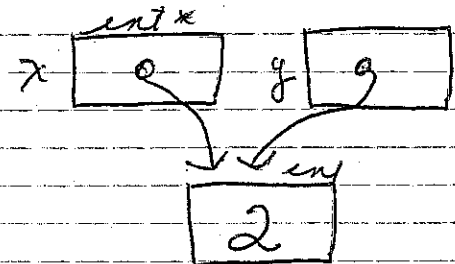
After `*y = 9`



4) After `x = y`



After `*x = 2;`



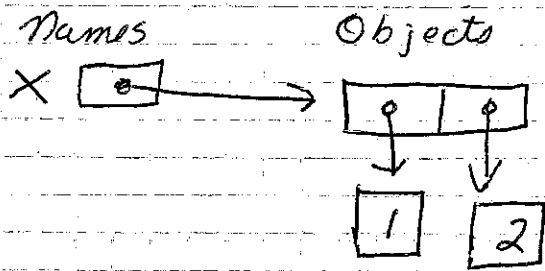
Python Memory Diagram

1) $X = [1, 2]$

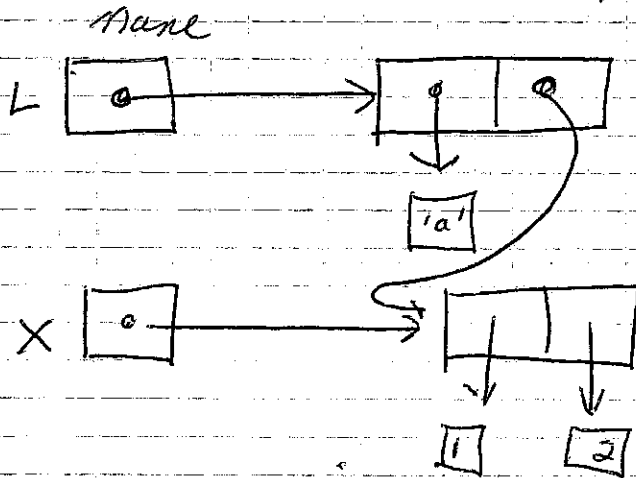
2) $L = ('a', X)$

3) $X[1] = 'ha'$

After $X = [1, 2]$



After $L = ('a', X)$



After $X[1] = 'ha'$

