Pass by Reference vs Pass by Value Practice

1. Where is each item stored in memory?

public class MemoryReview {

int x = 1;

static int *y* = 10;

public static void main(String[] args) {

int z = 100;

String str = "Hello";

MemoryReview obj1 = new MemoryReview();

MemoryReview obj2 = new MemoryReview();

}

}

HEAP

STRING POOL

STACK

**m**

**main(\_)**

Drag the below shapes and text into the stack and heap, the add the arrows:

str:

MemoryReview  
Object:

MemoryReview  
Class:

10

1

1

100

obj2:

MemoryReview  
Object:

x:

obj1:

y:

x:

“Hello”

z:

Pass by Reference vs Pass by Value Practice

1. Where is each item stored in memory?

public class MemoryReviewWrapper {

Integer x = 1;

static Integer y = 2;

public static void main(String[] args) {

Integer x = 100;

Integer y = 200;

Integer z = Integer.*valueOf*(200);

MemoryReviewWrapper obj = new MemoryReviewWrapper();

}

}

STACK

**m**

**main(\_)**

x:

1

2

100

200

y:

x:

obj:

y:

z:

MemoryReviewWrapper  
Class:

MemoryReviewWrapper  
Object:

Integer Cache

HEAP

STRING POOL