

# Participation Activity 4

Last Name: \_\_\_\_\_

First Name: \_\_\_\_\_

Std #: \_\_\_\_\_

## Memory Allocation Example

*Where does everything go?*

Indicate with an arrow in which memory segment the content of each box will be found once we start executing this program.

```
#include ...

char hugeArray[1 << 31]; /* 231 = 2GB */
int global = 0;

int useless() { return 0; }

int main ()
{
    void *ptr1, *ptr2;
    int local = 0;
    ptr1 = malloc(1 << 28); /* 228 = 256 MB*/
    ptr2 = malloc(1 << 8); /* 28 = 256 B*/

    /* Some print statements ... */
}
```

