cs354 diagram W04, cslogin: _____eyy_____

If you wish to complete this during the lecture, find a card or sheet of paper complete as described and add your cslogin to top of page and handin during lecture.

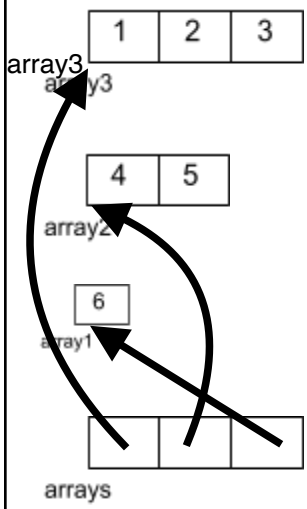
Draw a memory diagram of the following code fragment. Use a rectangle for each memory location that is allocated. Label each allocation with its type, name, and value, if known. Use arrows to indicate contents that point to known locations, and use ? if the value is not known.
Show all memory allocated and in which memory segment it is allocated in.
Complete in class or print and save as pdf and copy to your activities handin directory.

You must diagram memory to get credit showing what memory is allocated and where and the values if known. Your diagram does not have to be completely correct to get credit. You may discuss and work with classmates, but do not post or share your solution. A solution will be posted or shown in lecture next week.

If not completed on paper in class, save as diagramW04.pdf and place a copy in your /p/course/cs354-deppeler/handin/202401/activities/CSLOGIN/diagramW04.pdf

```
int array3[3] = {1,2,3};
int array2[2] = {4,5};
int array1[1] = {6};
int *arrays[] = {array3,array2,array1};
```

Depends on where this code chunk is from, if within a function, then all variables declared are non-static local variables and thus would belong on the STACK segment. If not defined within a function, then these variables are global variables and would belong on the DATA segment.

STACK	HEAP	DATA	CODE
 arrays contain addresses to array3, array2 and array1 respectively			