

# Stack And Static Arrays

Static Arrays are stored in stack section of memory:

We know arrays get stored in contiguous memory allocation (i.e., adjacent memory allocation).

The concept here is storing array's element:

If  $a[0]$  gets stored in address :1000 of stack

The next arrays index will be 1001 of stack and not 1004 or any other address. This is the concept of contiguous memory allocation that is storing in memory adjacently it looks like:

$a[5] = 15$	1005	}	Contiguous Memory Allocation In Stack by Static Arrays.
$a[4] = 14$	1004		
$a[3] = 13$	1003		
$a[2] = 12$	1002		
$a[1] = 11$	1001		
$a[0] = 10$	1000		

*As we see both stack and Arrays are linearly structured, one after the other hence they fall in linear data structure.*

*And we can represent stack operation through arrays.*