

6. If you were incorrect, lightly cross out the previous table and use this one to record the correct layout as shown in the dump.

0x00	a	x	b	b	c	c	c	c
0x08	d	d	d	d	d	d	d	d
0x10	-	-	-	-	-	-	-	-
0x18	-	-	-	-	-	-	-	-

7. Will this type take up more or less space than the first?
 This type will take up more space because the order of its elements produces more padding.

2.4 Arrays of Structs

8. What stride do you expect this array to have? 8 bytes
9. How will this struct's size compare to that of `pair`?
 This struct's size is smaller (6 bytes) since it requires less padding.

2.5 2-D Arrays

10. What stride do the "inner" arrays have? 1 bytes How about the "outer" ones? 3 bytes
11. Do you think this function would be useful for an array declared as: `int8_t flipped[3][2]`?
 No, the dimensions (specifically, the outer stride) do not match. So the compiler will not be able to access the fields of the array correctly.
12. What stride does the outer array have this time? 8 bytes
13. Do you think this function would still be useful if `first` and `second` each had 4 elements? How about if they had two different lengths?
 This function would still work because its assembly does not use the lengths of `first` and `second` in computation.
14. What effect would we observe if we modified an element of `first`?
 The modification would occur on both `multilevel[0]` and `multilevel[1]`.

2.6 Endianness (Optional)

15. What disadvantage of little-endian did you just observe?
 Little endianness is harder to read in a byte-by-byte memory dump.
16. How would the assembly of this function differ if x86-64 were a big-endian architecture?
`mov 4(%rdi), %eax`