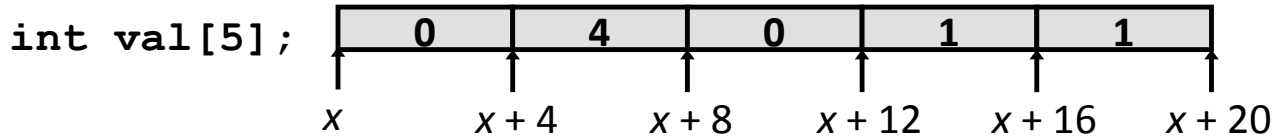


CSCI 2330 – Pointer Exercises

Consider the array shown below with the specified **int** contents, which starts at memory address x . For each expression given below, give the **type** of the expression (e.g., **int** or **int***) as well as its **value** (which may be in terms of x). Assume a little-endian machine with 1 byte chars, 4 byte ints, and 8 byte longs.



Example Expression: $(5 + 3)$
Type: int
Value: 8

1. `val[4]`
2. `val`
3. `val + 1`
4. `&val[2]`
5. `*(val + 2)`
6. `val + i` (for some integer i)
7. `val[5]`
8. `*((char*) val)` (casting `val` to `char*` before dereferencing it)
9. `*((long*) val)` (hint: remember endianness)