CSCI 2330 – Pointer Exercises
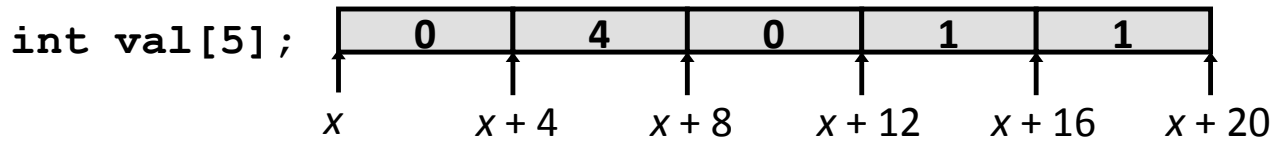
1. Consider the array shown below with the specified contents, starting at memory address x. For each of the expressions given below, indicate the **type** of the expression (**int** or **int***) as well as the **value** of the expression.

```
int val[5];
```

	0	4	0	1	1

x $x + 4$ $x + 8$ $x + 12$ $x + 16$ $x + 20$

Expression	Type	Value
val[4]		
val		
val + 1		
&val[2]		
*(val + 2)		
val + i		

2. Implement the following C function without using the built-in `strlen` function.

```c
int string_length(char str[]) {




}
```

3. Re-implement the above function, but do so *without* using array indexing.

```c
int string_length(char* str) {




}
```