

CS326-02 Lab02 Q&A Debugging

Lab02 Extension

Lab03 More practice

Lab section on wed

Lab02, Lab03, Local dev setup

Autograder

How to print or write an integer value

```
int count = 13;  
char str[32];
```

To Linux

```
printf("%6d\n", count);
```

To convert to a string

```
sprintf(str, "%6d", count);
```

int_to_str_fill (int d, char *s, int fill)

{

strcpy(s, "uuuuu");

}

int d; \rightarrow 32 bit (4 bytes)

13

1 1 0 1

$2^3 2^2 2^1 2^0$

8 4 0 1

$$8 + 4 + 0 + 1 = 13$$

0000 0000 0000 0000 0000 0000 0000 1101

13 char ascii:

$$\begin{aligned} \text{digit} &= d \% 10 \\ &= 13 \% 10 = \boxed{3} \end{aligned}$$

$$\text{ascii} = '0' + \text{digit}$$

$$\begin{array}{r} 48 \\ 48 + 3 = \end{array} \boxed{51}$$

str[³5¹, 49,]

$$div = d / 10$$

$$= 13 / 10 = 1$$

$$d = div$$

str = { '3', '1', '10' }

str = { ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', '1', '3', '10' }