EX 1 MON/2/24

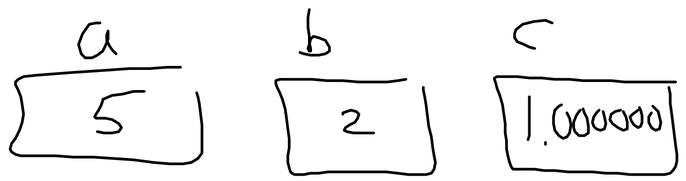
CLOSED NOTE/BOOK

ONE "HELPER SHEET" ALLOWED NOT TO EXCEED 8.5" x 11" - anything printed/written on both sides OK.
NO CALCULATORS

- Convert FROM base 10 to any base
- Convert FROM any base TO base 10
- 2 <-> 4 <-> 8 <-> 16
- counting in another base
- bit Twiddle problems
- expression evaluation
- convert algebraic expression to C
- predict output of this code
- write a program to...

eval expr #32

```
int a=5, b=2;
float c;
c = a % b;
printf("%f", c);
}
```



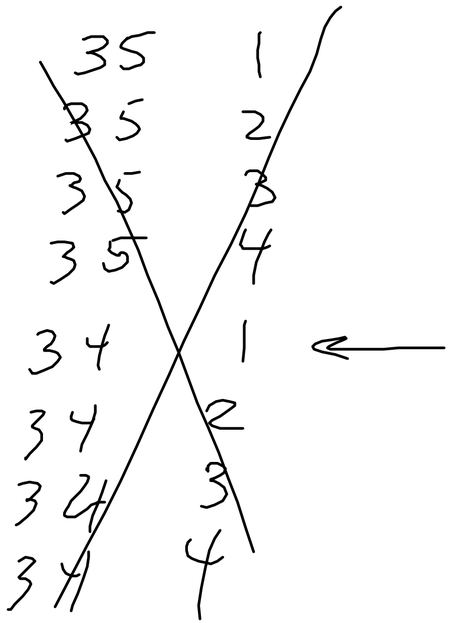
evalexpr #30

```
int i=2, j=3, k, m;
float a, b
k = i/j * j;
m = j/j * i;
a = i/j * j;
b = j/i * i;
printf (k, m, a, b)
```

i	j
2	3

k	m	a	b
0	2	0.000000	2.000000

```
j = 1;
for (i = 35; i > 33; i = i - 1)
{
    while (j < 5)
    {
        printf("%d %d\n", i, j);
        j = j + 1;
    }
}
```



35 1
35 2
35 3
35 4

j is 5
so the while loop is not entered