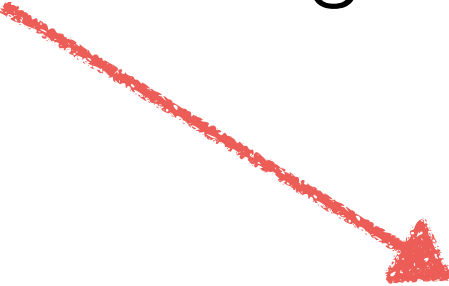


Literals/Variables

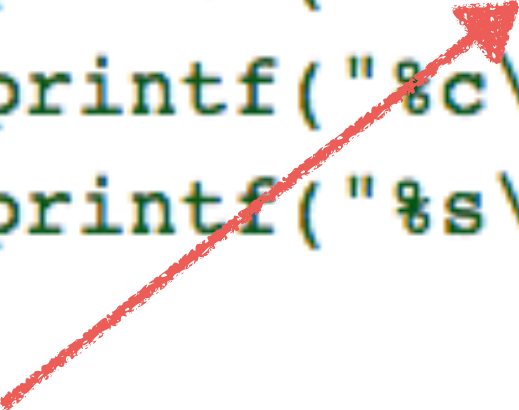
Types of Literals

- Integers = no decimal part - int
- Real numbers = decimal part - double
- Characters = single character - char
- Strings = string of characters - char *
- Booleans

printf function
needs a string



```
printf("%d\n", 3);  
printf("%f\n", 5.0);  
printf("%.2f\n", -4.9);  
printf("%c\n", 'h');  
printf("%s\n", "hello");
```



Truncate to
2 decimal
places

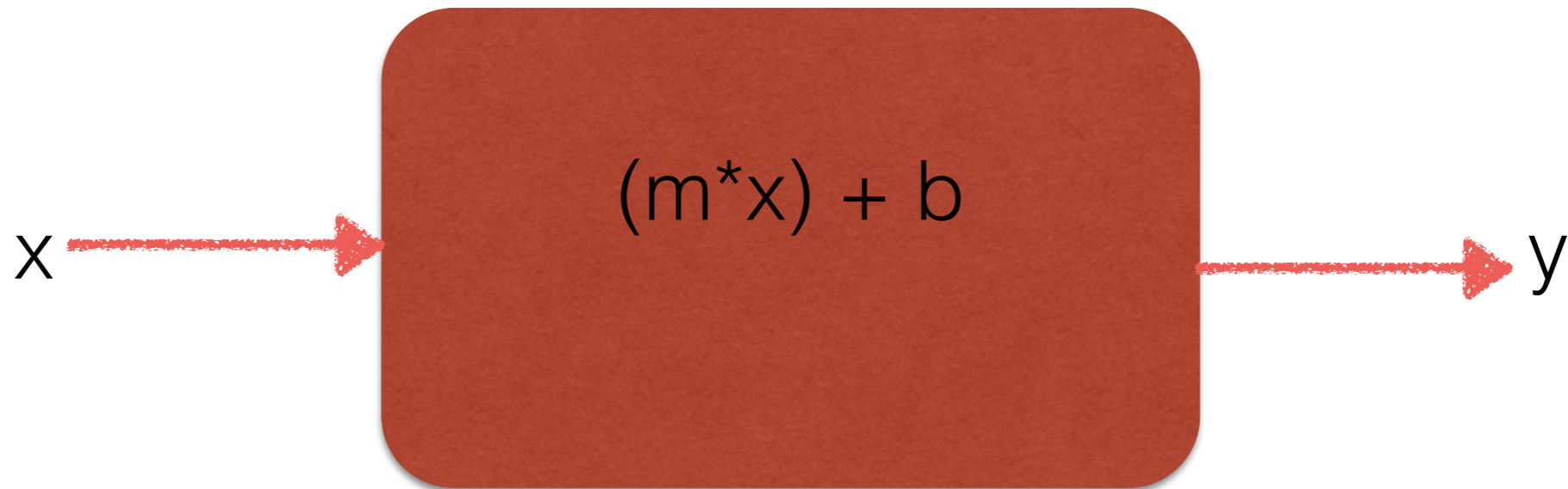
Escape Characters

- `'\n'`
- `'\t'`
- `'\\'`

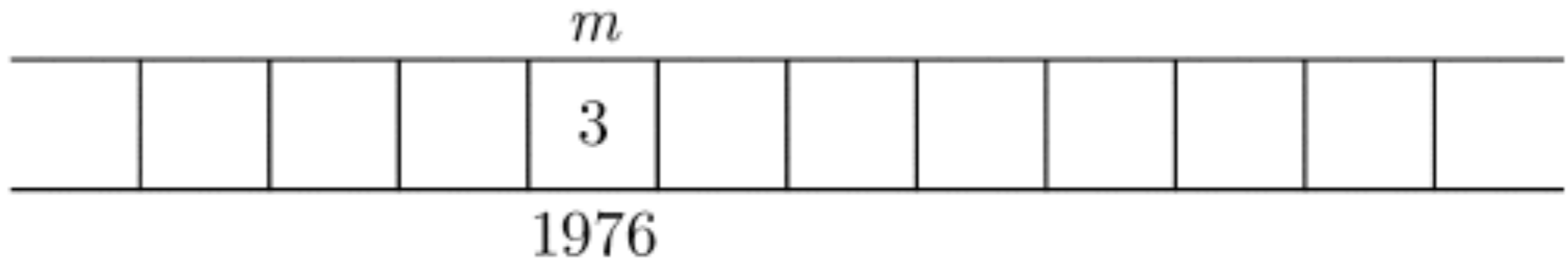
literals.c

$$f(x) = mx + b$$

Variables!



Variable Definition



```
int m = 3;
```

Variable Declaration

```
int x;
```

```
x = 4;
```


Variable Access

```
printf("%s", name);
```

```
int a = 1;
```

```
int b = 2;
```

```
    a = b;
```

```
    b = 3;
```

What does a equal?

Variable Names

variables.c

Swapping Variables

```
int a = 1;
```

```
int b = 2;
```

```
int temp = a;
```

```
a = b;
```

```
b = temp;
```

%

Modulus operator

`x % 2 == 0;`