

In-Class Worksheet

Discrete Math & Functional Programming— CSCI 054— Spring 2025

Instructor: Osborn

What do you expect the following expressions to evaluate to?

```
ghci> 2 + 15
```

```
ghci> 49 * 100
```

```
ghci> 1892 - 1472
```

```
ghci> 5 / 2
```

```
ghci> True && False
```

```
ghci> True && True
```

```
ghci> False || True
```

```
ghci> not False
```

```
ghci> not (True && True)
```

```
ghci> 1 == 0
```

```
ghci> 5 /= 5
```

```
cap n =  
  if n > 100  
  then 100  
  else n
```

Modify the `cap` function so that it additionally evaluates to 0 if `n` is less than or equal to 0.

Write a function `pow` that takes two parameters `n` and `k` and returns `n` to the `k`th power.
(assume that `k` is guaranteed to be a non-negative integer)