COSE212: Programming Languages

Lecture 9-2 — Manual Type Annotation

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## Language: LETREC with Type Annotation

## **Examples**

```
• proc (x:int) (x+1)
```

- letrec int double (x: int) =
  if iszero x then 0 else (double (x-1)) +2
  in double 2
- proc (f: (bool -> int)) proc (n: int) (f (iszero n))

## Typing Rules

## Type Check Algorithm