CSE 130 (Wi 25) Handout

Feb 4, 2025

Question 1

Given the following datatype

```
data Paragraph
  = PText String
  | PHeading Int String
  | PList Bool [String]
```

What is the type of `q1 = Text "Hey there!"`?

```
q1 :: _____
q1 = PText "Hey there!"
```

Question 2

Given the same datatype for `Paragraph` as above, fill in the blank to indicate the type of `q2`

```
q2 :: _____

q2 = [PHeading 1 "Introduction", PText "Hey there!"]
```

Question 3

Given the datatype defined above, what is the type of

```
q3 :: _____

q3 = case PText "Hey there!" of
       PText    str   -> str
       PHeading lvl _ -> lvl
       PList    ord _ -> ord
```