CSE 130 (Wi 25) Handout

Jan 30, 2025

Question 1

Fill in the blank with the type of `q4`

```
q1 :: _____
```

```
q1 = [ [1], [2, 3], [4, 5, 6] ]
```

Question 2

Suppose we have the following `mystery` function

```
mystery :: [a] -> Int
mystery l = case l of
              []     -> 0
              (x:xs) -> 1 + mystery xs
```

What does mystery `[10, 20, 30]` evaluate to?

Question 3

Fill in the implementation of a function `drop` such that

```
drop :: Int -> [a] -> [a]
```

```
drop 0 xs     = _____
```

```
drop n []     = _____
```

```
drop n (x:xs) = _____
```

Such that we see the following behavior

```
>>> drop 2 [3,4,5,6,7]
[4,5,6,7]
```

```
>>> drop 3 [1,2,3,4,5,6,7]
[4,5,6,7]
```

```
>>> drop 10 [1,2,3,4,5,6,7]
[]
```