Constructing datatypes

I. Want to store all paragraphs in a text document

II. How would GHCi reply to:

III. How would GHCi reply to:

IV. Haskell's datatypes

A. Product types

-- | Deadline date extended by one day
extendDate = deadlineDate + OneDay

-- | Deadline time extended by one day
extendTime = deadlineTime + OneMinute

B. Recursive types

-- | Deadline date extended by one day
extendDate = deadlineDate + OneDay

C. Tuples can do the job but there are two problems…

D. Quotations

1. Verbose and unreadable

2. Syntax error

3. Type error

Three key ways to build complex types/values:

A. Recursion

B. Quotations

C. Product types

D. Tuples

Representing complex data

box :: String -> Int
box h n =...
Write a function to
We can represent expressions as
2. Recursive type as a result
E.
D.

Step 2:
Some
Building data types
B.

What is the type of
QUIZ
The expression
Pattern matching expression: typing
D.
C.
A.
QUIZ
is just for
The code we saw earlier was
We've seen: pattern matching in
Beware of
What would GHCi say to:

```
add n m
```

```
data Succ
```
Each recursive call returns the result of the value returned by the recursive call. This means that value returned by the recursive call is not used and is not computed again.

Lists aren't built-in! They are an example of a data structure that is implemented with recursion.

Recursion is...