### Assignment Project Exam Help

https://eduassistpro.github.io/

#### Contents

- Motivation : why do
- Type domains renttps://eduassistpro.github.io/
   Define your own typ
- Constructors
- Usage Add WeChat edu\_assist pro

#### **Motivation**

- Types seen so far : cha
- Type constructor type://eduassistpro.github.io/
  - Readability
  - Built-in validation
- Example : if a type called dide that only six legal values on assist pro

  - A value that is **not** one of the legal values (One . . .

#### **Type Domains Revisited**

- We can define https://eduassistpro.github.io/
- The type [char] has potentially infinite legal values : [], ['A'], ['B'], ['h','
- Pattern-matching Allows equal Weck as linst these legal valages assist\_pro

#### **Define your own Types**

```
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```

```
https://eduassistpro.github.io/
f True = 34
f any Add WeChat edu_assist_pro
g :: mybool -> num
g Mytrue = 34
g \ any = 13
```

#### Constructors

- The wrong way:

  - https://eduassistpro.github.io/
- The correct way:
  - ▶ dice : := One | Two | Three | Four | Five | Six
- Constructors start with a capital etter Chat edu\_assist\_pro

   Built-in type board des to this Chat edu\_assist\_pro

  - Built-in types num and char break the rule (for convenience)

### Constructors (2)

- Each Assignment Project Exam Help
- Each legal value may also have some extra data (if so, we specify its type following the constructor):

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Add: tawweChat edu\_assist\_pro

### **Usage**

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```
midpoint (Coord (x1, y1, z1)) (Coord (x2, y2, z2))
= Coord ((x1 + x2)/2, (y1 + y2)/2, (z1 + z2)/2)
```

### Usage (2)

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```
topmarks https://eduassistpro.github.io/
topmarks ((StudentByname any x) : rest)
```

```
topmarks ((StudentByregid id x) : rest) = (x : (topmarks rest)), if x >= 70= topmarks rest, otherwise
```

#### Different from type synonyms

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Add cow rechatuedu\_assist\_pro

y = Coord (3, 4, 16)

#### **Summary**

### Assignment Project Exam Help

- Motivation: wheattps://eduassistpro.github.io/
   Type domains review type domains type doma
- Define your own types!
- Constructors

Usage

- Add WeChat edu\_assist\_pro
- Different from type synonyms

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