https://eduassistpro.github.io/

Add We Curtis Millar Dedu_assist_pro

Assignment Project Exam Help

- Simple Pic Moving on the Simple P
- **3 Generating a Picture**: generate pictures of circle

rclePic

Add WeChat edu_assist_pro

Exercise 1

Property Based Testing

Assignment Project Exam Help Key idea: Generate random input values, and test properties by running them

Example (Quic

Exercise 1

prop_revers https://eduassistpro.github.io/

Haskell's Quick Dear in the first library repitivement of properties assist pro Java, Scala, F#, OCaml, Standard ML, C and C++.

Mersenne Prime Example

Exam Help

- The n^{th} Mersenne number $M_n = 2^{n-1}$
- M_2 , M_3 ,

Exercise 1

• Conjectu https://eduassistpro.github.io/

Let's try using QuickCheck to answer this question.

After a small number of guess's extra tractored Line Quess's pro counter-example to this conjecture: 11.

It took humanity about two thousand years to do the same.

Semigroup and Monoid Properties

Last veek we proved by hand that Dist forms a semigroup with the as it associative operator and a monoid with the as its identity element.

We can show the same properties much faster (although less completely) with property based testing.

```
QuickCheck Hottps://eduassistpro.github.io/
-- Semigroup laws
```

-- Monoid Laws

```
prop_listLeftIdentity xs = xs == [] ++ xs
prop_listRightIdentity xs = xs == xs ++ []
```

Reverse Involution

Assignment Project Exam Help

Last week we also pr nvolution.

This took over twe

Let's see how her type://eduassistpro.github.io/

QuickCheck Property

Add We Chat edu_assist_pro

Assignment Project Exam Help

Given a magazine (

String form) fr https://eduassistpro.github.io/

- Write a specification
- Create an Acel Comp Were Conhat edu_assist_pro
- Test the implementation

In Haskell.

Graphics

Write Access estation on the following functors, use went are repettes, and then test an implementation.

- Morizonta
- Vertical flighttps://eduassistpro.github.io/

Implement the about a single cath that ight du_assist_pro for other PictureObject constructors or for an entire Haskell.

Proofs

Assignment Project Exam Help

- Proofs mus
 the softwar
 Proof completes://eduassistpro.github.ijo/
- If software is incorrect, a proof attempt might simply bec
- always get constructive negative feedback.

 Proofs can be always and time interests edu_assist_pro knowledge (\$\$\$).

Testing

Compared Signment Project Exam Help • Tests typically run the actual program, so requires fewer assumptions about the

- language se
- Test comphttps://eduassistpro.github.io/
- Incorrect software when tested leads to immediate, de
- Testing is the larger and faster than provided assist pro
 Tests care about efficiency and computability, unlike assist pro

We lose some assurance, but gain some convenience (\$\$\$).

Verification versus Validation

Assignment Project Exam Help

"https://eduassistpro.github.io/

Testing is essential but is insufficient for safety-critical applic

Add WeChat edu_assist_pro

Homework

Assignment Project Exam Help

- Last week https://eduassistpro.github.io/
- This week's quiz is also up, it's due next Friday (in 9 days).

Add WeChat edu_assist_pro

Consultations

Assignment Project Exam Help

https://eduassistpro.github.io/

Be ready to share your screen with REPL (ghci or stack repl) and editor set up.

Add WeChat edu_assist_pro