Experience Hero Tech Course Pre-Course

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- But ultimately, it's to become developers who <u>build good</u> software.
 - So what is "good software"?

What is good software design?



What is good software design?

• TODO:

Write the number and names of classes used in your RacingCar implementation in the group chat.



2025-05-03



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 - They change requirements however they want.
 - \rightarrow But we can't pressure the customer.
 - → So write code considering expandability.



So What is good Software?



So What is good software design

Being open to extension is enough.



So What is good software design?



- S.O.L.I.D principles?
- Design patterns?



Fact

Honestly, you wouldn't understand even if I explained.



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Fact

You just have to get beaten up (by experience).





- Green class names: If you implemented them, your separation of concerns is probably good (expandable).
- Red class names: Classes added for new requirements. It's normal if they're not there yet.
- Just matching a few green classes doesn't measure design skill—it's just a reference.



Make each car have different movement conditions.



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OK, Inject move condition in the *Car constructor.

Code Change Lines: 1

• Car: Domain Model https://puleugo.dev

No, let them be randomly assigned.



Make each car have different movement conditions.



Just randomize the *moveCondition field read by *isMovable().

Code Change Lines: 1

• Separate functions so that each one does only a single task. https://puleuglodswit disappear after a single use, promote it to a field variable. 25

Oh, I think the game would be more fun... Please add obstacles.





Alright, in the Round class, I'll spawn obstacles every 5 rounds.

Code Change Lines: 10



From now on, whether the moveRandomly() method of a car succeeds will depend on the Round.

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Since Round is calling *Cars.moveAll(), I'll need to inject the current event (obstacle) into moveAll() as well.

Don't process loops or filtering logic in the business layer.
 Use a first-class collection.
 29





If Round decides what happens when Car meets an Event, like calling car.move() or car.accident()... I swear I'll lose it. That's not its responsibility.

Oh, and in addition to obstacles, please add items too. Like in Mario Kart!



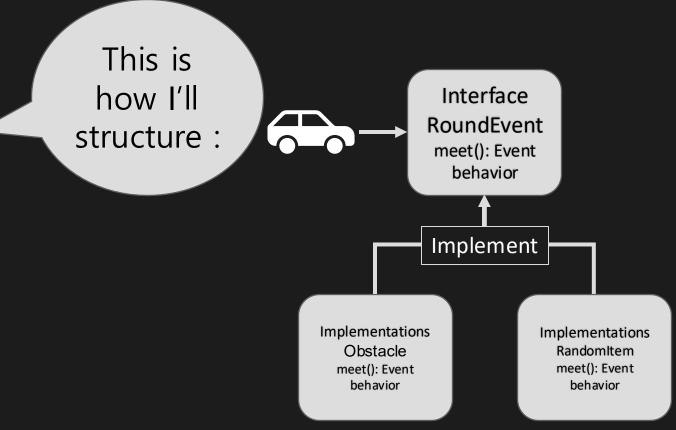
Please make items appear in specific rounds



Alright. I'll add an interface called RoundEvent.
Both Obstacle and RandomItem will implement it.

Please make items appear in specific rounds





(...what are you trying to say?)



Please make items appear in specific rounds



Of course, only one event should occur per round.

Got it?

Oh, is that so ...?



The game's so much fun now. Let's turn it into a league mode.



Hmm... the game should keep running until I say stop.



Please export the game records in Excel.



1. The game must repeat until it's manually stopped.



Ugh... this is giving me a headache.

1. The game must repeat until it's manually stopped.



Well, I've already separated the game into a Racing class. Just run it in a while loop.

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Easy. I've got a RaceResult class already.



I'll implement an ExcelFormatter in the View Layer.

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Just call the formatter inside OutputViewer.showResult().



And don't you dare put parsing logic in the domain layer.

It's hell to maintain later.

Hmm... should we continue the rest tomorrow?



I really think I'm a genius planner.



End of encounter with the "lovely" customer.

What is good software design?

- "If the system is well structured, adding or changing features can be done faster and more efficiently."
- How do you structure it?
 → "Just with experience ('짬')."



What is good software design?

- "If the system is well structured, adding or changing features can be done faster and more efficiently."
- How do you structure it?

 → "Just with experience ('짬')."
- So here and now, to gain experience, I will conduct a live code review with you.

