Yay, another one. Assignment 5. Ooh. Simulation of Go Evolutionary Design Process.

You are about to start. An assignment involving a simulation of Go Evolutionary Design Process is submitted to Inter... Blah, blah. Optimize and build spatial design based on the structural performance of the design.

There we will create a structural model. Oh, God. And consequently change the building spatial design.

You will in total complete two iterations of SEDP. The assignment starts with building spatial design from the villa depicted on the left. Start... Yeah.

Think out loud, blah, blah. Okay. This screen displays your current building spatial design.

Use the mouse to rotate. And familiarize yourself with each unique numbered space. The counter at the top left indicates your current iteration.

When you're ready, click on continue to proceed. Yeah. I still don't understand what is the bottom and what is the top because my mouse does weird things.

But I think the T-shape... Oh, like two T-shapes on top of each other in... How do you say this? Opposite direction. And then some thingy on the top. Which I see sort of a core in between eight and ten.

Sort of central core. And then part on the left, part on the right. But yeah.

Sort of T-shape. Okay. Continue.

Oh no. The first step in this assignment is the creation of a structural model. You will assign one of the three possible structural types to each rectangle of the spatial model.

The available types are beam, truss, flat shell. I don't like structural design. In the next screen, you have to assign a structural type to each rectangle by clicking the corresponding option in the table.

Oh, okay. Choose the type you believe is best suited for each rectangle. All horizontal rectangles, floors and roofs are assigned by flat shell by default and cannot be changed.

Yeah. Okay. Create structural design.

Okay. Please think out loud when you choose certain types. You can only continue if you select the type for every rectangle.

Okay. What I said. I see sort of four element type here in the middle of the three layers.

So, I think it's handy, good to have some diagonals over there to give that the structural. And then, what is one? Oh. Okay.

Oh. It's just clicking. Um.

Yeah. Um, but. Nay.

Nay. I'm just trying to figure out what is what. I think it's very.

Oh, yeah. Uh. Oh, but there's not a beam underneath it.

Here. Right. But then I don't want to be that a beam.

But I want this to be a beam. Yeah. No.

I don't like this. This. Yeah.

What happens then if I unclick this one? Oh. Nay. Um.

Yeah, I think it's very. Um. Oh, there are beams there.

Oh, yeah. Yeah. Oh.

I find this very, uh. Ongebruiksvriendelijk. How to say it.

Now everything is a beam. And now can I unbeam it. So.

I want this to. To stay beams. I think.

And. Maybe. Here on the sides.

The. Some crossbracing. Oh.

I find this. Yeah. Fine.

Yeah. Not fine. Flat shell.

Not fine. I'm trying to make the. This sides.

Into a truss. Yeah. No.

But what is a flat shell? Is it a shear wall? Robin. Is a flat shell a shear wall? I don't think so. Oh.

Good to know. Oh, Mardam. If a flat shell is a shear wall.

I assume that. Then. I don't know where I want them.

Uh. Oh, but now I. Did change some beams. So.

Everything that is flat shell again. I will change back to beam. To get the overview back.

Yeah. So. Oh.

I want some crossbracing here. In the overhead. I think.

Yeah. And maybe some. Flat shells.

Here on the sides. Um. Yeah.

So I want some. Shear walls here on the sides. Carrying a load in the sort of.

Core. And I want here. At the overhang.

I want a crossbracing. Okay. Flat shell.

No. Back to beam. Back to beam.

No. No. Maybe not.

No. No. No.

Oh, yeah. Yeah, that's what I want. No.

No. No. Yeah.

That's also what I want. Uh. No.

No. No. Yes.

Yes. Yes. Yeah.

Okay. Now I have it there. Um.

I want the. Crossbracing. In a beam.

So. Back to trusses. No.

Yeah. Good view. No.

No. No. No.

No. No. No.

I was feeling this. It's more here. No.

Oh. No. No.

No. Oh my god. Yeah.

No. No. No.

Okay. I found it very frustrating. That.

Yes. One. Amazing.

Two. No. Three.

Four. Yeah. No.

No. I don't think they're in the. In this.

Are they? Um. Um. Maybe I need the flat surface.

Also here. To give stiffness in that direction. Um.

It's. Maybe an option. But I think it's maybe also still.

Um. Okay. But at least the trusses I have now.

And the flat shells. Are fun. Um.

I can also change this. No. The.

I think this will be prettier. If this can be open. Since you already have the cross bracing there.

And then. I don't know. Um.

Yeah. Is this fine? I don't know. Yeah.

Confirm. One space. Think about.

Oh I have to remove one. Seven. Uh.

Because of the overhang. I think. We don't like overhangs that much.

Yeah. I would say seven. On a structural.

Base. Due to the overhang. Ike.

Yes. Continue. You are asked to split a maximum.

Of one space. As you decide which space to split. Please explain your reasoning out loud.

Okay so I should split one space. I don't want to split anything. Um.

Yeah. If I have to think out loud. And have to split something.

I think I would split nine. Because nine is a square. And the other parts are rectangular.

And I think if you split nine. You get sort of. A building.

Consisting of the same units. So you can maybe make something. Modular or.

Unit based. So. That's why I. Yeah.

I'm going to split nine. Yes. Okay.

Continue. Oh. First.

Um. Situation complete. The building spatial model has been adjusted.

To recover. The initial floor area. Review all previous steps.

On the screen to your left. The updated design will be now serviced. For the staggered iteration.

Okay. Start iteration two. This screen.

This place. Your current building spatial design. Use the mouse.

Yeah. We have to do the same. Oh again.

So nice without the numbers. Um. I don't know.

Make everything beams again. Start with that. I think I'm sort of.

Are going to do the same. Why. So.

Let's just know. I don't want any. Flat shells.

Or traces. In my interior. Space.

I think. That's a requirement. For me.

Oh you can. Oh. Now I see that you can put.

Yeah. Sorry. I think.

Without numbering. It's very. Frustrated.

To do this. Now I have missed one. Oh God.

I can do it again. Yes. Okay now I have sort of.

Stability walls. Woop woop. And now I have the feeling.

That I have to. Now I like here. The trash.

Don't ask me why. Because I didn't do it. Last time.

Yeah. Damn. Oh.

Only one. I'll think of ten. To make it more.

Layered. Oh. I could have done another one.

So then I could have one and two. Because now. I can remove it two times.

That's not fair. But that's okay. Then.

Yeah. Maybe eight. Yeah.

I just wanted one and two then. Eight. Oh no.

Wait. Oh now I have to split. I think something on top.

So for example more like. Eight, eleven, twelve. And more like.

Eight or twelve. I think eight. It's more on the outside.

Yes. Higher. I'm going to say.

Yeah. I don't know. All right.

So anyway. Which is really kind of. It's a bit.

So it's not really. So. It's a bit.

So. So. Yes.

So. Yeah. Okay.

Yeah. Yeah. Are you sure? I do not know.

That would be a second guess. Even the number. Service.

Yes. Cool. Thank you.

Awesome. Which is why we are going to choose my own. Oh.