

Facebook conversation with Toby Shaw

14/9/13

Cheng Sun

6 3 100 300 1 400 300 1 100 100 1 400 100 1 203 299 0 315 300 0 0 4 0 4 5 0 5 1 0
try making this iron platform not collapse

Toby Shaw

XD
Okay this is hard
Did you deliberately make that bridge asymmetrical?
Because one side of it breaks and the other side doesn't grr

[...]

Toby Shaw

Hahaha
This design has been trolling me
11 20 100 300 1 400 300 1 100 100 1 400 100 1 203 299 0 315 300 0 182 352 0 328 350 0 197
248 0 334 244 0 334 244 0 0 4 0 4 5 0 5 1 0 0 6 1 6 4 1 6 7 1 7 5 1 7 1 1 6 2 1 7 3 1 4 2 1 5 3 1 0
8 1 8 9 1 9 10 1 9 1 1 8 4 1 9 5 1 8 6 1 9 7 1
3 seconds wait before it breaks.

Cheng Sun

bahaha
I'm not sure why it spontaneously breaks
might be a bug

Toby Shaw

ehh..
I'll admit defeat

[...]

Toby Shaw

also they keep swinging forever

Cheng Sun

no, it doesn't

Toby Shaw

fine, for like 10 mins

Cheng Sun

there's very little air resistance
but
this is an ideal world, remember

[...]

Toby Shaw

Is it possible to make one entirely out of iron?

I'm having difficulties

Cheng Sun

dunno

Toby Shaw

OH its easy

8 5 100 300 1 400 300 1 100 100 1 400 100 1 141 324 0 192 337 0 295 339 0 346 329 0 0 4 0 4
5 0 5 6 0 6 7 0 7 1 0

boom

[...]

Toby Shaw

I think (?) things have weight in this right?

Cheng Sun

yep

iron is ridiculously heavy

hence, why it sucks

nice build btw

[...]

Toby Shaw

Basically, iron is shit.

Cheng Sun

I should rename it plastic or something

Toby Shaw

Hahaha

Cheng Sun

I really need to tweak the material parameters

they seem a bit unbalanced

Toby Shaw

Yea.. it's completely broken atm

Cheng Sun

oh I know why iron spontaneously snaps
physics bug
kinda

Toby Shaw

Nice job on the simulator btw
very impressive

[...]

Toby Shaw

btw your bottom triangle in your 'solution' is redundant
8 8 100 300 1 400 300 1 100 100 1 400 100 1 203 299 0 315 300 0 212 385 0 314 379 0 0 4 0 4
5 0 5 1 0 0 6 1 6 4 1 6 7 1 7 5 1 7 1 1
Wait, I beat that solution
Only one extra point is needed
7 7 100 300 1 400 300 1 100 100 1 400 100 1 203 299 0 315 300 0 236 134 0 0 4 0 4 5 0 5 1 0 0
6 1 6 4 1 6 5 1 6 1 1
Just requires intense positioning

Cheng Sun

Haha, neat I'm on my phone right npw so can't check it
Can you do it if the iron bridge is split into four segments instead of three?

Toby Shaw

I assume that would make it easier

Cheng Sun

Orly

Toby Shaw

I showed you earlier that you could have a free-standing iron bridge if it was in 5-6 sections
it acts more wire-like and is less prone to snapping

Cheng Sun

Oh yeah, true

Toby Shaw

Since if it was 1 section it'd be next to impossible.
wait wait wait
no I was wrong.
a single iron bar is completely stable.

Cheng Sun

I fixed it

Toby Shaw

oh lovely.

Cheng Sun

Four is harder if the iron bars are all in a line

Toby Shaw

ah okay, so now spontaneous snapping isn't the major issue of iron, potentially dividing it further will result in less stability?

[...]

Toby Shaw

last one:

31 102 100 300 1 400 300 1 100 100 1 400 100 1 195 163 0 195 197 0 196 238 0 197 273 0 197
308 0 226 308 0 260 308 0 299 309 0 332 309 0 332 272 0 333 230 0 333 193 0 334 158 0 300
157 0 300 157 0 300 157 0 267 158 0 229 160 0 231 192 0 234 236 0 234 267 0 264 266 0 262
232 0 263 188 0 298 186 0 298 224 0 297 262 0 4 5 1 5 6 1 6 7 1 7 8 1 8 9 1 9 10 1 10 11 1 11
12 1 12 13 1 13 14 1 14 15 1 15 16 1 16 17 1 17 18 1 17 19 1 17 20 1 20 21 1 21 4 1 21 22 1 22
23 1 23 24 1 24 9 1 10 25 1 25 26 1 26 27 1 27 20 1 17 28 1 28 29 1 29 30 1 30 11 1 13 30 1 14
29 1 29 26 1 26 23 1 23 6 1 7 24 1 24 25 1 25 30 1 15 28 1 28 27 1 27 22 1 22 5 1 4 22 1 21 5 1
21 27 1 20 22 1 20 28 1 17 27 1 16 28 1 17 15 1 15 29 1 28 14 1 28 26 1 29 27 1 27 23 1 22 26
1 22 6 1 23 5 1 23 7 1 24 6 1 24 26 1 25 23 1 25 29 1 30 26 1 30 14 1 13 29 1 12 30 1 11 13 1
11 25 1 30 10 1 10 24 1 9 25 1 9 7 1 8 24 1 4 2 2 16 3 2 1 12 2 8 0 2 21 2 2 17 3 2 20 3 2 20 2 2
5 2 2 6 2 2 7 0 2 0 6 2 1 13 2 1 14 2 3 15 2 3 14 2 2 17 2 2 16 2 3 21 2 3 4 2 2 7 2 2 8 2 3 13 2 3
12 2 1 15 2 1 16 2 0 5 2 0 4 2

Cables op

Cheng Sun

Hmm, yes

I need to nerf that

[...]

Toby Shaw

did you see I finished your game?
supported the iron bridge with only iron and not the top 2 points.

Cheng Sun

Wait, with only iron?

Toby Shaw

10 11 100 300 1 400 300 1 100 100 1 400 100 1 203 299 0 315 300 0 1 500 0 164 407 0 343
400 0 498 498 0 0 4 0 4 5 0 5 1 0 7 0 0 8 9 0 0 6 0 1 9 0 1 8 0 7 6 0 7 4 0 8 5 0
Check it for yourself.
It's a work of art.

Cheng Sun

that's, like, physically impossible bro
wtf
time to fix my code methinks

Toby Shaw

nonono it was near-impossible to get that
iron is incredibly broken and awful

Cheng Sun

hahaha
yes, it's rusty iron you see

Toby Shaw

I just think leave iron there as 'hard-mode'
just rename it 'brittle plastic'