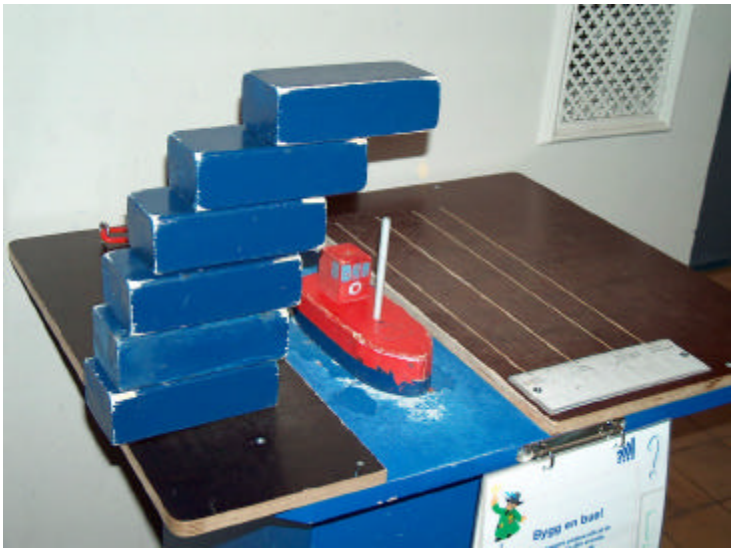
Bygg en bue!

Kan du plassere platene slik at de danner en bue, der den øverste platen ligger helt utenfor de nederste?



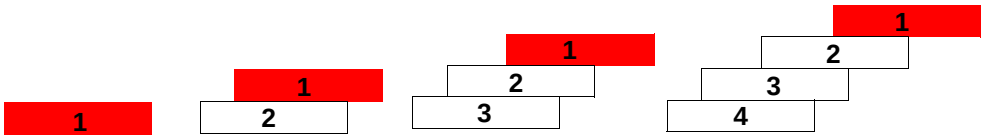
Har buen lett for å rase ned?

Klippes bort

Eksperimentarius gir deg et tips

Jeg antar at du bygde buen fra bunnen og opp. Men jeg bygde min fra toppen og ned!

Den første platen er plassert halvveis oppå den andre, slik at den akkurat ikke vipper. Disse to platene er nå plassert på toppen av den tredje slik at disse to ikke vipper. Slik fortsetter du på hver side til det dannes en bue.



I teorien kan du bygge en så stor bue du vil, hvis du bare har plater eller steiner nok.

Om denne konstruksjonen er solid, kan diskuteres. Hva tror du?

Klippes bort

Tower Building

Can you place the plates in such a way that they form an arch, where the top plate lies totally outside the bottom one.

Does the arch topple easily?

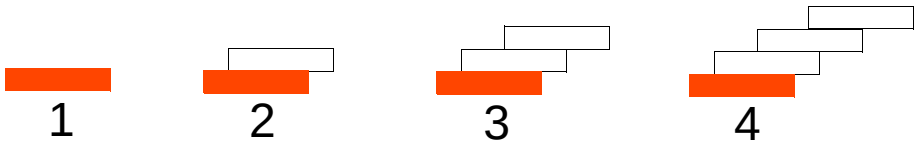
ENGLISH?

Klippes bort

Experimentarius explains:

I suppose you built your arch from bottom to top. I built mine from top to bottom!

The first plate is placed on half of the second one, just enough so it doesn't topple. These two plates are then placed on top of the third one, again just so that they don't topple. You continue in this way on each side until they form an arch.



The stack will not fall if the following rule is met: The center of mass for all the plates above one particular plate must lay on a vertical axis that cuts through that particular plate. This must be true for every plate in the stack.

In theory you can build as big an arch as you want, if only you have enough plates or rocks.

Do you think this construction is solid?

You need at least five identical plates to build an overhang of one plate. A three-plate overhang takes 227 plates!

ENGLISH!