Brainstorming (con't)

- I can do *some* brainstorming "in my head" without crutches

- Some people can think more deeply than I can, but, they reach a limit

- Sometimes a solution is achieved before the thinking-limit is reached & sometimes not

- Some people use Strong Typing to perform brainstorming

  - They try to express the type system for the solution, without writing code but writing code for the type design

  - This, similarly, gets them to find new aspects of the problem-at-hand

Strong Typing - Help or Hinder?

- Strong Typing can be a form of Waterfall design

- Type design as brainstorming is good

- Forced typing by decree is waterfall (Bible thumping)

  - finalizing a type system before the design is finished assumes too much up-front knowledge —> waterfall

- recursive *iterative* design means that any aspect of the design — e.g. type system — might be re-designed several times