Fibonacci Example - What is Recursion and Why Should You Usually NOT do it?

Recursion is where a method calls itself - and it's a favourite technique of programmers trying to be clever. Some people really like it. Some people have been told it's a good idea. **To be clear...**

- **It is HARDLY EVER a good idea.**
- **In this module it is NEVER a good idea.**

If you want to see one reason why not, download and run the program below - it computes Fibonacci numbers using a loop and recursion and compares them. As well as the very obvious problem when you do that, the recursive version uses a 'block' of extra memory for every extra Fibonacci number it computes: the other one doesn't. We aren't really short of memory - but this is a pointless waste of it.

Fibonacci.java (https://canvas.swansea.ac.uk/courses/44525/files/4319169/download?wrap=1)  **(https://canvas.swansea.ac.uk/courses/44525/files/4319169/download?download_frd=1)**