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CS 1400

Recursion Essay

Recursion is a practice where you solve a problem that is dependent on the answer to smaller versions of the same problem. In java terms it means creating a method that does something, but then you recall that method within the method itself. It involves taking the solution from a couple of calls in, and using that answer to solve the larger problem.

The Tower of Hanoi is a common example of how to use Recursion. You typically will use a variable called N to help with this. But as you create a program to help solve this you will use an if loop that has recursion inside of it. At first grasping this is pretty hard, but as I started to watch a few videos about it, it began to make more sense.

Another use for recursion is factorials. We can use a factorial method to find factorials. Again using an if loop with an else statement, we can include some code like “n\*Factorial(n-1)” which keeps calling the method until n=1 when it stops. With recursion this problem becomes a lot easier to solve.

<https://www.youtube.com/watch?v=l6h_gFjgSFc>

Recursion using the Tower of Hanoi

Jack Kilby

<https://www.youtube.com/watch?v=q6RicK1FCUs>

Tower of Hanoi Problem - Made Easy

IT India

<https://www.youtube.com/watch?v=_OmRGjbyzno>

Recursion basics- using factorial

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