

How the Computer Works ... n!

- Factorial $(n)=n$ !

Inductive definition:

- $n!=1 \quad, n=0$
$n!=n *(n-1)!, n>0$
- Let's act it out...
- "contractor" model
- 5!




## Summary

- It's important to understand the machine model
- It's often the cleanest, simplest way to solve many problems
- Esp those recursive in nature!
- Recursion is a very powerful idea, often separates good from great (you're great!)


