

Making a PB & J Sandwich (bad)

- Make a peanut butter and jelly sandwich
- Eat

- *Well defined problem*
- *Ambiguous steps to algorithm*

Making a PB & J Sandwich (better?)

- Put peanut butter and jelly between two slices of bread
- *Where do I get the ingredients?*
- *How do I get them out of their containers?*
- *What do I use to “put” the ingredients between the layers?*

Making a PB & J Sandwich (better?)

- Grab a some bread
- Get some peanut butter and jelly
- Grab a knife
- Spread the peanut butter on the bread
- Spread the jelly on top of the peanut butter
- Put peanut butter and jelly between two slices of bread

- *Still very ambiguous and imprecise.*

Making a PB & J Sandwich (better?)

- Take two slices of bread from the loaf.
- Apply two tablespoons of jelly on both halves.
- Apply two tablespoons of peanut butter in the same way.
- Join the two halves

- *Ok, better than previous attempts.*
- *More precision would be better.*

Making a PB & J Sandwich (best?)

if bag is closed

open bag

if loaf is already sliced

remove two slices from open end

otherwise (it isn't sliced)

remove bread from bag

cut two slices of bread from loaf

put slices on table separately

open the jar of peanut butter

if jar is sealed

unseal jar

pick up knife

put knife in peanut butter

scoop out 2 tablespoons of peanut butter

...and so on.