Flashback to your first year...

Write a Java function that takes as input an array of numbers and returns as output the largest number that is adjacent to a zero.
... look at code ...

# Is solving a problem that is this small "software engineering"? 

> analysis design
> implementation testing deployment maintenance

> analysis design
> implementation
> testing deployment maintenance
while (true)
\{
> emacs LargestNeighbor.java
> javac LargestNeighbor.java
> java LargestNeighbor
\}
analysis design
implementation
testing
deployment maintenance

## analysis

 design implementation testing deployment maintenance
## What questions should you ask

 your "client" about LargestNeighbor?> Is an array of length 0 allowed? If so, what is the correct answer?

Must the array have at least one 0 value? Must the array have at least one non- 0 value? If not, what is the correct answer?

Are negative values allowed?

If negative values are allowed, should we use absolute values?

## Should LargestNeighbor be

 an instance method or static method?

Yes.

# Do I really need to know <br> how to do stuff <br> like this? 

Version

## Control

# What one skill that students 

 don't tend to learn in school has the most effect in the world of software engineering?

Figure 1-1 Overview of the systems development life cycle

## problem definition

## data collection and analysis

## analysis of systems alternatives

## determination of feasibility

## development of system proposal

# development <br> of pilot system 

## systems design

## systems development

## systems deployment

## systems review and evaluation

