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
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?
Let’s play...

Yes.
Do I really need to know how to do stuff 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 of pilot system
systems design
systems development
systems deployment
systems review and evaluation