











| Viewpoint On teaching   | g programming Reply  |
|---|--|
| I don't like how we are forced<br>to visualize things in Dr. Gries'<br>way Entire point of<br>programming is to be able to<br>look at things in different ways<br>and come up with different<br>solutions for one problem.<br>Forcing us to think of things in<br>his way and testing us on it has<br>been detrimental to my learn-<br>ing because in my opinion it<br>wastes time and confuses me.<br>This course should focus more<br>on solving problems rather<br>than drawing folders to | <ol> <li>A model of execution of Java<br/>programs is needed in order to<br/>bring understanding.</li> <li>Problem solving <i>is</i> the focus.<br/>The programs you wrote for<br/>A5, the algorithms we are now<br/>studying, and the way we<br/>develop them, could not have<br/>been possible without the basics<br/>that we have given you.</li> <li>We are giving you tools for<br/>coming up with <i>good</i> solutions,<br/>not just different ones.</li> </ol> |
| represent objects.  | 7  |





Engineering, 1968

Software

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Next 10-15 years: intense period of research of software engineering, language design, proving programs correct, etc.



During 1970s, 1980s, intense research on How to prove programs correct, How to make it practical, Methodology for developing algorithms The way we understand recursive methods is based on that methodology. Our understanding of and development of loops is based on that methodology. Mark Twain: Nothing needs changing so much as the habits of **others**.



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