

Contest strategy



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Reading

- Read all the problems before doing any coding
- Make notes
- How long should you spend on reading?

Planning

- Don't implement as soon as you have one solution
 - Estimate the big-O time
 - Estimate the memory
 - Check that your solution works
 - Implement the simplest possible solution
 - How long do you spend on planning?
 - Mathematical modelling?
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Coding

- Don't try to be too clever
- When do you go back and plan?



Testing

- Unit testing
 - White-box testing
 - Regression testing
 - Speed testing
 - Boundary cases and special cases
 - Comparative testing
 - Compiler help: `-Wall; -Wall -O2; -fttrapv`
 - Code review
 - Assertions: `assert (condition) ;`
 - How long do you spend on testing?
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Debugging

- Learn to use a debugger
- What do you do when you find a bug?
- When do you cut your losses and give up?



Time management

