

## How to solve an APT • Two very, very important steps • 1. How to solve the problem with Paper, Pencil, (Calculator) • How to translate problem-solving to Python • Oth steps can be hard, vocabulary and language to printially a real barrier • Othe more experience you have with Python, the easier step a vil get • The more you understand the idioms and power of the language the more you can let step 2 influence step 1













## Grace Murray Hopper (1906-1992)

- "third programmer on world's first large-scale digital computer"
   US Navy: Admiral
  - "It's better to show that something can be done and apologize for not asking permission, than to try to persuade the powers that be at the beginning"



ACM Hopper award given for contributions before 35
 2004: Jennifer Rexford
 2010: Craig Gentry: <u>http://www.youtube.com/watch?v=qe-zmHoPW30
 2011: Luis von Ahn
 Competite.fail.2012
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