Meeting 03: x86 and Flatten

Announcements

* Post questions (publicly) for faster response!
  - post anonymously
* Extra credit opportunity - stress test
* Register your code word — need to do advance to submit HW1
* Everyone submits!

```python
python compile.py test.py -> test.s

import compiler
ast = compiler.parseFile("")

Tests: add1.py test program (Po) for compiler
add1 in

Expected answers

Po = Python
```
Questions

- Po print — (only 1 argument)

  - Correctness first!

Po program

3
  → do nothing

print 3
  → print 3

Always ok to "drop" under a Discard?

Side-effect in Po input()

input()

print input()

"Dropping" — Optimization
- How many tests is enough?

Diff between P0 and x86

P0 \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow x86

"Flat"

+ sequence of instructions
  - registers
  - constants
  - memory refs
  - limited number
    - "memory" cells
    - limited
      - number of them
    - (vs. variables)

"Not Flat"

3
+ 4
+ 5
6

⇒ use the stack for variables