

## Outline for March 5, 2018

Homework: due March 6, 2018 at 11:59pm

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1. Fun problem: number of grains of rice on the chessboard [*rice\_chess.py*]
2. Character/integer conversions [*chr.py*][*ord.py*]
  - a. Cæsar cipher (shift cipher) [*caesarenc.py*][*caesardec.py*]
3. Common exceptions
  - a. `ZeroDivisionError` — attempt to divide (or take the remainder of) something by 0
  - b. `TypeError` — operation or function applied to operand of wrong type
  - c. `SyntaxError` — Python parser encountered a malformed statement
  - d. `NameError` — local or global name is not found
  - e. `ValueError` — built-in function or operation applied to operator with illegal value
  - f. `EOFError` — input function encounters an end of file
  - g. `Keyboard Interrupt` — user hit the interrupt key (usually control-C)
4. Handling exceptions
  - a. **except** [*except0.py*]
  - b. **except** *exceptcode* [*except1.py*]
  - c. **else** [*except2.py*]
  - d. **except** *error* **as** *msgvar* [*except3.py*]
  - e. **finally** [*except4.py*]
  - f. Exceptions in a function: who handles them? [*except5.py*][*except6.py*]
  - g. Using global variables as error flags [*except6a.py*]
  - h. **raise** *exceptcode* *message* [*except7.py*]
5. Online Python documentation
6. JSON [*json-ex.py*]
  - a. What it is
  - b. `json.loads`
  - c. `json.dumps`