§2.12: Problem-solving example: Bank interest

devo

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CMPT14x
Dr. Sean Ho
Trinity Western University

Reminders:

1) *journals* in folder

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Review of 2.8, 2.9, 2.11

- Formatted output of CARDINALs, INTEGERs:
  - WriteCard (card, width); WriteInt (int, width);
- Formatted output of REALs:
  - WriteReal (real, width);
  - WriteFloat (real, sigFigs, width);
  - WriteEng (real, sigFigs, width);
  - WriteFixed (real, places, width);
- Interactive vs. batch programs
  - Scripting an interactive program

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Problem-solving example

- Today we'll go through a complete example problem with all the steps
  - Labs starting with Lab3 and on need a full writeup similar to this
  - Homeworks and Labs1-2 only need a short writeup
- The main point is to do as much design and thinking as possible *before* coding
  - Ideally, you won't have to spend hours and hours debugging

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Writeup outline

- Problem statement
- Suitability
- Problem restatement
- Library usage
- First refinement: input, computation, output
- Second refinement
- Pseudocode (third refinement)
- Data table
- Sample I/O
- User manual
- Code
- Actual output from test runs

Example writeup

- *(see online version linked from homepage)*

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TODO items

- **Homeworks** due Fri: §2.14 # 33, 43
- **Lab2** due next MWF: §3.14 # (38 / 45)
  - Choose either #38 or #45
  - Short writeup okay
- **Reading**: through §3.4 for Fri

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