CATAM @ induction

✦ Find these slides (PDF with links) at the CATAM webpage http://www.maths.cam.ac.uk/undergrad/catam

✦ Helpline: catam@maths.cam.ac.uk

✦ Dr M B Wingate, CATAM-Director@maths.cam.ac.uk
Marks available — Part IB

- Maximum of 160 Tripos marks
- For the average student, CATAM contributes \( \approx 20\% \) or more
- Credit added directly to marks total: no \( \alpha \) or \( \beta \)'s

see Schedule and CATAM manual for more detail
Marks available

- Try your best to capture CATAM marks
- Don’t let them suffocate on King’s Parade
Deadlines — Part IB

✶ Tuesday, 24 January 2017, 10am — 4pm
✶ Tuesday, 2 May 2017, 10am — 4pm

✶ ∃ many reasons to work diligently and “finish” well ahead of deadline
  ✦ to deal with unforeseen problems including graphs, tables, program listings
  ✦ to be familiar with submission procedure
  ✦ to have ample time/ink to print out hardcopy

see CATAM manual for more detail
GOOD NEWS!

MATLAB makes computational maths easier.
You don’t have to learn to be an ace programmer.

GOOD NEWS!

You can learn to be an ace programmer!

The University Information Services (UIS, formerly UCS) offers courses in C++, python, R, and MATLAB, http://www.ucl.ac.uk/training

You can use these languages and others for CATAM*

*Ask helpline if an in-built function makes question/task trivial

see CATAM manual for more detail
Openendedness

- Unlike tripos questions, CATAM projects often have open-ended questions, e.g. invitations to comment.
- This is deliberate.
- Figuring things out for yourself is a “transferable skill”.
- Frustration might actually be productive discomfort (think: yoga, strength/athletic training, music practice, essay writing).

see CATAM manual for more detail.
Communicating mathematics

- Communicating by writing is a “transferable skill”
- Proofread for typos & mistakes
- Reread, imagining you are not the author:
  - Would you like to read your write-up?
  - Would you learn any mathematics from it?
Academic integrity

✧ 98-100% of you work very hard studying mathematics
✧ You have earned an examination procedure which respects your efforts
✧ Achievement of tripos marks by unfair means is an insult to all of you
✧ I promise to protect the academic integrity of CATAM
Unfair means

**Unacceptable** collaboration includes (but is not limited to):

- Copying any person’s program
- Using someone else’s program or any part of it as a model, or working from a jointly produced detailed program outline
- Copying or paraphrasing someone else’s report in whole or in part
- Posting questions on the internet, e.g. StackExchange
- Sharing your work with other students

see [CATAM manual](#) for more detail
Unfortunately, upholding Academic Integrity means we all have to undertake some administrative tasks:

- Submit **code/programs** *electronically*
  - Comparison with projects submitted this year *and* previous years
- Produce & submit **write-up** *electronically*
  - Checked against Turnitin UK database
- Student declaration form (e-mail to be sent soon)

See [CATAM manual](#) for more detail.
Consequences of plagiarising

“If it is concluded that you have used unfair means for the whole or any part of the Computational Projects the likely outcome is that you will receive a mark of zero for the Computational Projects in their entirety.”

Unfortunately, this happened last year.

Marks were also deducted from someone who “donated” their computer code to their friend.

see CATAM manual for more detail
Electronic submission

✶ Submit your code and write-up electronically

✶ Free to produce your write-up using
  ♦ LaTeX — Introductory lecture Thurs 10 Nov 2016, 1-2pm, CMS, MR3
  ♦ Microsoft Word
  ♦ LibreOffice/OpenOffice
  ♦ most any word processor (see CATAM manual)

✶ Not permitted: anything scanned
Resources — Part IB

 [*] [MATLAB classes]
[*] CATAM manual
[*] LaTeX manual & lecture
[*] Helpline: catam@maths.cam.ac.uk

[*] Ask your DoS to arrange a supervision on introductory project, or on core projects *after* you receive the marks back

[*] Lecture on introductory project:
  Mon 14 Nov 2016, 9:00, Mill Lane 3

[*] Library
Have a good year!