0. Presentation

Programming and Algorithms II
Degree in Bioinformatics
Fall 2017
Instructors

Ricard Gavaldà
Mostly theory
[Link: gavalda@cs.upc.edu]
Omega building, 232

Edelmira Pasarella
Mostly labs
[Link: edelmira@cs.upc.edu]
Omega building, 212
Sessions

Tuesdays: 15:30-17:30, theory + some problems

Wednesdays 15:30-17:30 and 18-20, labs

Plus 3-4 hours weekly on your own:
reviewing & finishing labs
Evaluation

10% our subjective assessment:
  attending sessions
  occasional homework shown to us
  labs shown to us
  and... well... subjectivity
15% Lab test 1, about 1 hour, **October 18th**
15% Lab test 2, about 1 hour, **November 22nd**
60% final exam, **December 11**
2nd chance exam, **January 10**
Jan. exam grade replaces dec. grade or whole course grade, whatever is best for you
Material

Theory slides and lab material:
http://www.cs.upc.edu/~gavalda/pa2.html

Notifications and grades:
Aula virtual ESCI

Please let us know when something is wrong
Contents

1. Analysis of algorithms
How to compare running times of algorithms.
Sorting, binary search, dictionaries and sets

2. Recursive programs
In order to understand recursion, you first must understand recursion

3. Abstract Data types. Object oriented programming
How to organize a large programs into manageable structures

4. C++ programming language
Programming closer to the machine