



DS-GA 1007

Programming for Data Science

Lecture 14

Testing and Profiling - Understanding Performance of Code



How efficient is the code
in terms of storage and
running time?

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How to catch errors in code?

Announcements

- ▶ Project
 - ▶ Feedback on Project Milestone available soon
 - ▶ Submit Project Report by **Sunday December 15** at **11:59PM**
- ▶ Final Exam
 - ▶ The exam is scheduled for **Thursday December 19** between **4-5:50PM**



Next week we will review for the exam in section

Agenda

- ▶ Review
 - ▶ Dates and Times
- ▶ Lesson
 - ▶ Debugging
 - ▶ Validating
 - ▶ Testing
 - ▶ Profiling
 - ▶ Running Time
 - ▶ Memory

Objectives

- ▶ How can we work with dates and times like numbers?
- ▶ How can we prevent errors? How can we learn from errors?
- ▶ What is Map Reduce? What is Spark?