

# Week05 – midterm report & integer programming

George McNinch

2024-02-12

The first of two *midterm reports* is due this Friday. If you want, you can look back over the [comments on rubrics I made in an earlier post](#).

- [\[midterm report 1\]](#) [\[pdf\]](#)

[\[midterm report 1 solutions\]](#)

This week, we are going to talk about solving linear programs where we insist on *integrality conditions* on the solutions. The term for this is *integer programming*. Our tools will be: solving linear programs (“the usual way”) together with so-called branch-and-bound strategies to avoid *brute force checking*.

- **Integer programming via branch-and-bound** [\[via colab\]](#) [\[download notebook\]](#) [\[pdf\]](#)

Next week’s problem set (PS04) will likely contain a problem about integer programming.

---