

There are 9 lectures to schedule, with three rooms available (L1, L2 and L3) at times 9am-10am, 10am-11am, and 2pm-3pm. There are three lecturers: subjects S1-Analytic Topology, S2-Infinite Groups and S3-Algebraic Geometry are lectured by Professor Anand, subjects S4-Complex Analysis, S5-Solid Mechanics and S6-Numerical Linear Algebra are lectured by Professor Brown, and subjects S7-General Relativity, S8-Combinatorics and S9-Elliptic Curves are lectured by Professor Chang. L1 has capacity 360, L2 capacity 210, and L3 capacity 110. The timetable has to satisfy the following constraints:

1. There are 250 students taking S1-Analytic Topology.
2. Prof Chang refuses to lecture in L1.
3. Some students take both S2-Infinite Groups and S7-General Relativity, so these must be scheduled at different times.
4. Prof Brown prefers to lecture S6-Numerical Linear Algebra before S5-Solid Mechanics.
5. There are 150 students taking S9-Elliptic Curves.
6. Some students take both S1-Analytic Topology and S8-Combinatorics, so these must be scheduled at different times.
7. Prof Anand prefers to lecture S3-Algebraic Geometry in the afternoon.
8. Prof Brown does not like to lecture in L1 first thing in the morning.
9. S2-Infinite Groups must be in a smaller room than S3-Algebraic Geometry.
10. S5-Solid Mechanics must take place in the morning.
11. Some students take both S3-Algebraic Geometry and S9-Elliptic Curves, so these must be scheduled at different times.
12. S3-Algebraic Geometry must be in a larger room than S4-Complex Analysis.
13. Prof Chang does not like to lecture in L3 in the afternoon.
14. S7-General Relativity must be in a smaller room than S6-Numerical Linear Algebra.

	9am-10am		10am-11am		2pm-3pm	
	subject	room	subject	room	subject	room
Prof Anand						
Prof Brown						
Prof Chang						