

MATH 253: DISCRETE MATH EXERCISES

Section	Exercises
1.	The Foundations: Logic and Proofs
1.1	(2, 4, 8, 14, 22, 28, 32)
1.3	(6, 8, 13, 14, 24, 57 ¹)
1.4	(2, 6, 10, 16, 28, 34, 38, 61)
1.5	(1, 8, 9, 20, 38, 46)
1.6	(4, 8, 7, 10, 17)
1.7	(1, 10, 11, 18, 38)
1.8	(1, 6, 9, 14, 40)
2.	Basic Structures: Sets, Functions, Sequences, Sums, and Matrices
2.1	(2, 4, 10, 14, 32, 34, 42)
2.2	(1, 4, 13, 20, 22, 34)
2.3	(2, 6, 14, 21, 30, 33, 36)
2.4	(2, 12, 18, 30, 32)
4.	Number Theory and Cryptography
4.1	(5, 8, 14, 20, 24, 29, 38, 41, 46)
4.2	(2, 4, 26, 31, 32)
4.3	(2, 14, 18, 21, 32, 42)
4.4	(2, 4, 10, 38, 50, 54)
4.6	(24, 26)
5.	Induction and Recursion
5.1	(4, 6, 10, 15, 20, 31)
5.2	(3, 10, 12)
5.3	(2, 5, 10, 12, 32)
6.	Counting
6.1	(2, 4, 12, 18, 30, 46, 52)
6.2	(2, 4, 9, 16, 31, 33)
6.3	(1, 5, 6, 8, 19, 26, 28)
9.	Relations
9.1	(1, 2, 4, 6, 28)
9.5	(1, 2, 15, 17, 25, 36)

¹Error in textbook solutions.