## Computer Architecture—Homework VII 107 Fall semester, Chapter 10

10.25	Consider a reduced 7-b	oit IEEE floating-point	format, wit	th 3 bits for	the exponent	and 3 bits	s for the	significand.
	List all 127 values.							

- 10.22 Assume that the exponent e is constrained to lie in the range  $0 \dots e \dots X$ , with a bias of q, that the base is b, and that the significand is p digits in length.
  - (a) What are the largest and smallest positive values that can be written?
  - (b) What are the largest and smallest positive values that can be written as normalized floating-point numbers?