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CS-225: Discrete Structures in CS

Homework 7, Part 1

Exercise Set 9.2 : Problem #12.b,  #14.c,  #14.e,  #17.d, #18.c   
Exercise Set  9.3 : Problem #5.a,  #23.c,  #29.g ,  #33.e,  #34.b

12. b) 10× 16× 16× 16×16× 13 = 8,519,680

14.

c)4× 26× 26× 26× 10× 10× 10=70,304,000

e)2× 25× 24× 23× 10× 9× 8=19.872,000

17. d) 5× 8× 8× 7=2,240

18. c) 3× 4^8 × 1=196,608

196,608× 196,607× 196,606× 196,605

5. a) 9× 10× 10× 10× 2=18,000

23. c) 1000-((1000/4)+(994/7))=1000-((225+142)-(980/7(4))=668

29. g)

possible host IDs are available.

33. e) 3 students checked both #2 and #3.

2 students checked all three. Therefore 3-2=1 student checked #2 and #3 but not #1

34. b) 21+21+31-41=32

14+15+9=38

38-32=6 people got relief from all three drugs.