

Homework 6

Due November 14, 2021

Problem 1:

You are given a range of addresses by your local internet registry, namely 47.151.152.0/23.

- (a) If this were a classful address, what would the class be?
- (b) What is the range of hosts in this network?
- (c) How many host addresses are in the range?

Problem 2:

A router receives a packet with destination address 138.19.55.135. The routing table contains the following entries.

Prefix	Interface
136.0.0.0/5	3
138.0.0.0 / 8	1
138.19.54.0 /23	2
138.19.56.0/23	3
138.19.48.0/20	4

What is the action of the router? Explain carefully your answer.