**CSC 453 introduction to parallel processing**

Homework Assignment #2

Due date: 8-10-2020 (Before 11:00 PM)

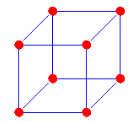
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Q1. A [hypercube](https://en.wikipedia.org/wiki/Hypercube) networks are a type of network topology used to connect multiple [processors](https://en.wikipedia.org/wiki/Processors) with [memory modules](https://en.wikipedia.org/wiki/Memory_module). The figure below shows 3-dimintional hyper cube. What is the diameter **D**, and the degree **d** of this topology?

D=Click here to enter text.

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Q2. Given the following list of numbers show how many steps needed to find the parallel prefix sum, assuming the numbers are stored one on each processor on a linear array with p=8? Show all steps and use only steps you need

List= 3, 5, 2, 7, 4, 6, 9, 1

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