Assignment 2

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2. Let W be the bisection bandwidth
   Let b be the bandwidth of an individual link
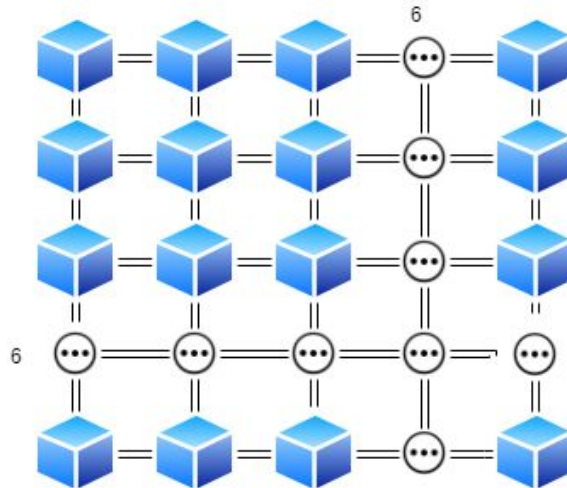
   Bisection Bandwidth = b • W

   The Bisection bandwidth of the fat-tree is
   48 • b = 48b

3.
   A.

   B. Let W be the bisection bandwidth
      Let b be the bandwidth of an individual link

      Bisection Bandwidth = b • W

      The Bisection bandwidth of the 2D-mesh is
      10 • b = 10b

   C. The maximum hop count is 18

D. 3 cases

    Middle nodes, 4 connections each
    Edge nodes, 3 connections each
    Corner nodes, 2 connections each

    4 Corners = 8 connections
    32 Edges = 96 connections
    64 Middle = 256 connections

    8 + 96 + 256 = 360 connections