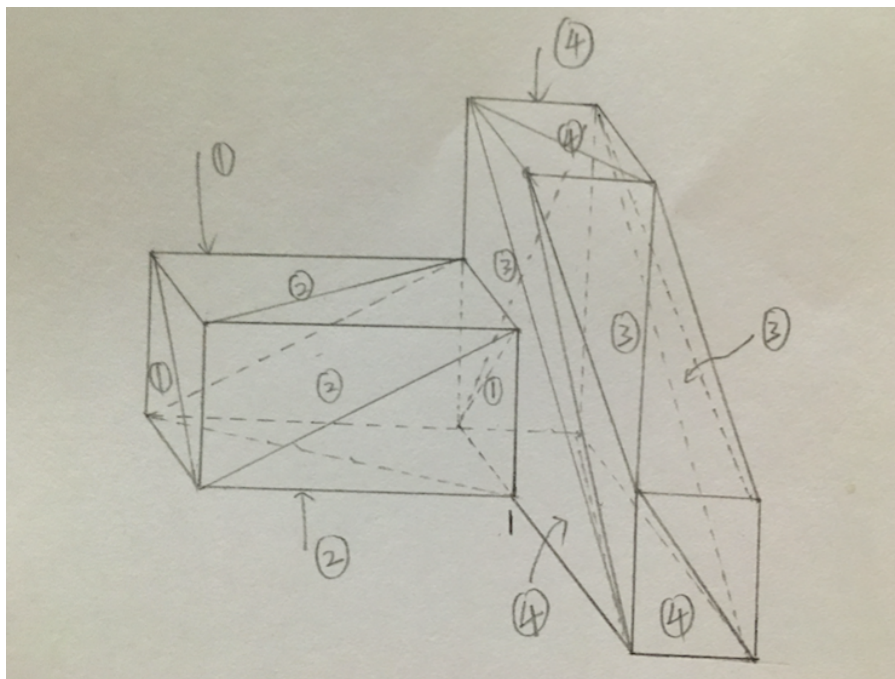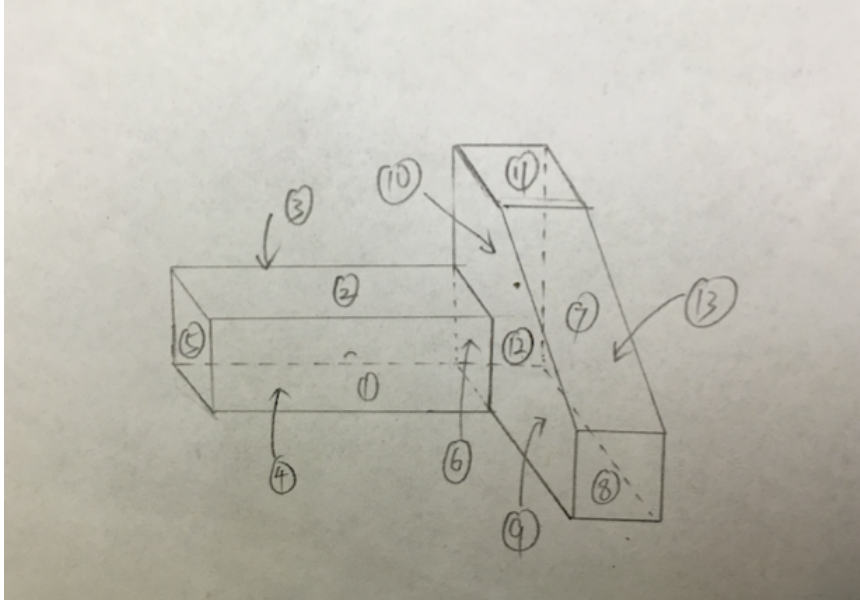fig1: points order

fig 2: 4 manifold meshes

fig 3: polygons order

Data List for Triangle Strip:

Manifold mesh 1:
Vertices:
[0 0 0] [0 0 1] [-1 0 0] [-1 0 1] [-1 -2 0] [-1 -2 1] [0 -2 0] [0 -2 1]
edges:
(1,2) (2,4) (1,4) (4,3) (3,2) (3,8) (8, 4) (8,7) (7,3) (7,5) (5,8) (5,6) (6,7)

Manifold mesh 2:
Vertices:
[-1 -2 1] [-1 0 1] [0 -2 1] [0 0 1] [0 -2 0] [0 0 0] [-1 -2 0] [-1 0 0]
edges:
(7,3) (3,6) (6,7) (6,2) (2,3) (2,5) (5,6) (5,1) (1,2) (1,8) (8,5) (8,4) (4,1)

Manifold mesh 3:
Vertices:
[-1 0 0] [-1 0 2] [2 0 0] [0 0 2] [2 0 1] [0 1 2] [2 1 1] [-1 1 2] [2 1 0] [-1 1 0]
edges:
(4,16) (16,9) (9,4) (9,13) (13,16) (13, 12) (12,9) (12, 14) (14,13) (14,11) (11,12) (11, 15) (15,14) (15,10) (10, 11) (10, 17) (17, 15)

Manifold mesh 4:
Vertices:
[0 0 2] [0 1 2] [-1 0 2] [-1 1 2] [-1 0 0] [-1 1 0] [2 0 0] [2 1 0] [2 0 1] [2 1 1]
edges:

(13, 14) (14, 16) (16, 13) (16,15) (15, 14) (15, 4) (4, 16) (4, 17) (17, 15) (17, 9) (9,4) (9,10) (10, 17)
(10, 12) (12,9) (12,11) (11,10)

Data lists for polygons:

Polygon 1:
Vertices: [0 0 0] [0 0 1] [0 -2 1] [0 -2 0]
Edges: (1,2) (2,6) (6,5) (5,1)

Polygon 2:
Vertices: [0 0 1] [-1 0 1] [-1 -2 1] [0 -2 1]
Edges: (2,3) (3,7) (7,6) (6,2)

Polygon 3:
Vertices: [-1 0 1] [-1 0 0] [-1 -2 0] [-1 -2 1]
Edges: (3,4) (4,8) (8,7) (7,3)

Polygon 4:
Vertices: [-1 0 0] [0 0 0] [0 -2 0] [-1 -2 0]
Edges: (4,1) (1,5) (5,8) (8,4)

Polygon 5:
Vertices: [0 -2 0] [0 -2 1] [-1 -2 1] [-1 -2 0]
Edges: (5,6) (6,7) (7,8) (8,5)

Polygon 6:
Vertices: [0 0 0] [0 0 1] [-1 0 1] [-1 0 0]
Edges: (1,2) (2,3) (3,4) (4,1)

Polygon 7:
Vertices: [0 0 2] [0 1 2] [2 1 1] [2 0 1]
Edges: (13, 14) (14, 11) (11, 12) (12, 13)

Polygon 8:
Vertices: [2 0 1] [2 1 1] [2 1 0] [2 0 0]
Edges: (12, 11) (11, 10) (10, 9) (9, 12)

Polygon 9:
Vertices: [2 0 0] [2 1 0] [-1 1 0] [-1 0 0]
Edges: (9, 10) (10,17) (17, 4) (4, 9)

Polygon 10:

Vertices: [-1 0 0] [-1 1 0] [-1 1 2] [-1 0 2]
Edges: (4,17) (17, 15) (15, 16) (16, 4)

Polygon 11:
Vertices: [-1 0 2] [-1 1 2] [0 1 2] [0 0 2]
Edges: (16,15) (15, 14) (14, 13) (13, 16)

Polygon 12:
Vertices: [-1 0 0] [-1 0 2] [0 0 2] [2 0 1] [2 0 0]
Edges: (4, 16) (16,13) (13, 12) (12, 9) (9,4)

Polygon 13:
Vertices: [-1 1 0] [-1 1 2] [0 1 2] [2 1 1] [2 1 0]
Edges: (17, 5) (15, 14) (14, 11) (11, 10) (10, 17)

Screenshots:

Homework 2