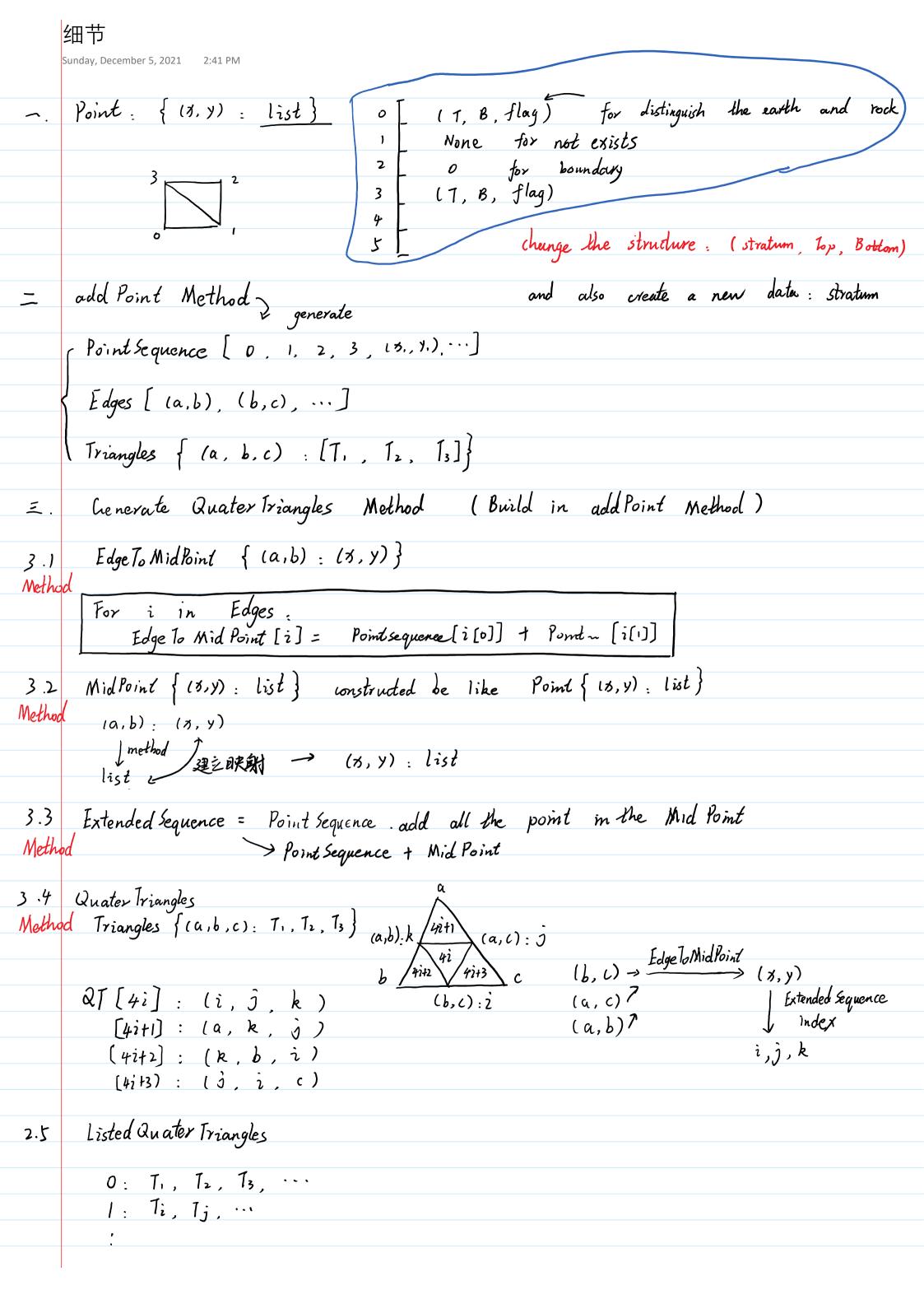
- 1. read the data from the Excel, create Point and Stratum
- 2. Generale IIN
- 3. Customize 11N. and make up customized triangle net
- 4. Generate the 3-D triingle surface using the method built in matplotlib., layer by layer

```
Stratum: list index 0 =
Point { 18, y }: list } dictionary
                                           index 0 = Z coords
          Point Sequence [ (x, y)]
                                          list
Original (
         Edges [(a,b)]
                                          list
          Triangles { (a,b, l): T, . 72, 73} dictionary
            Edge to MidPoint { (a,b): (8,y)}
                                                       dictionary
            MidPoint { (8, y): list }

generate
Extended
            Extended sequence [ Point + Point sequence] list
                                                           list
            Quater Triangles [ (a,,b,,c,)]
              (a,b,c): ((a,b)), (b,c), (a,c)
         Edge to MidPoint: (18, y)-
                                  -> Extended sequence -> index
                                                  Quater Triangles (4,b,c)
```

All the data above contain the four corner points which was made but not true data



Sunday, December 5, 2021

Filt out the Triangles which contains the "mnessary" Point

Target Triangles Net = Quater Triangles - Listed Quater Triangles [i]

give the 2 coords to each Target Tr gles Net.

that Method is designed for earth (flag 0)

flag 0: earth 残粉土

stratums up to down

[o ("earth or rock", flag)

全风化 强风化

中凡化

版及化

Addition

3.2

without flag

Method (Edge To Mid Point)

 $(a,b) \Rightarrow hist$

Point Sequence [a] > (8, y) Point list A > New list

Point Sequence [6] -> (×6, 1/6) Point list B

rebuild the structure. Point: {(x, y): (1, B. stratum)} and create a new data named "stratum"

For layer in stratum:

execute two index for A and B:

iterate all the layers in list A and list B

get all the satisfied data, then move the start point of index to the statisfied layer.

situation 0: A satisfied, B failed

situation @. Both satisfied. but structure not similar

 $A[0] \rightarrow B_{\times}[0] \rightarrow \frac{j(x,y)}{j(y,z)}$ in generation C, but values equal to 0 $\Rightarrow B_{\times}[0] \rightarrow j(y,z)$

Top: (A[1] + Bx[1])/2 Bottom: (A[2] + B[2])/2

then create the same amount of point in (Top, Botlom) to match the layers in (8,4). (4,2)

situation D. Both satisifed, and data looks similar

c = A+B

Situation @ Both failed do nothing

jump into next layer of stratum.