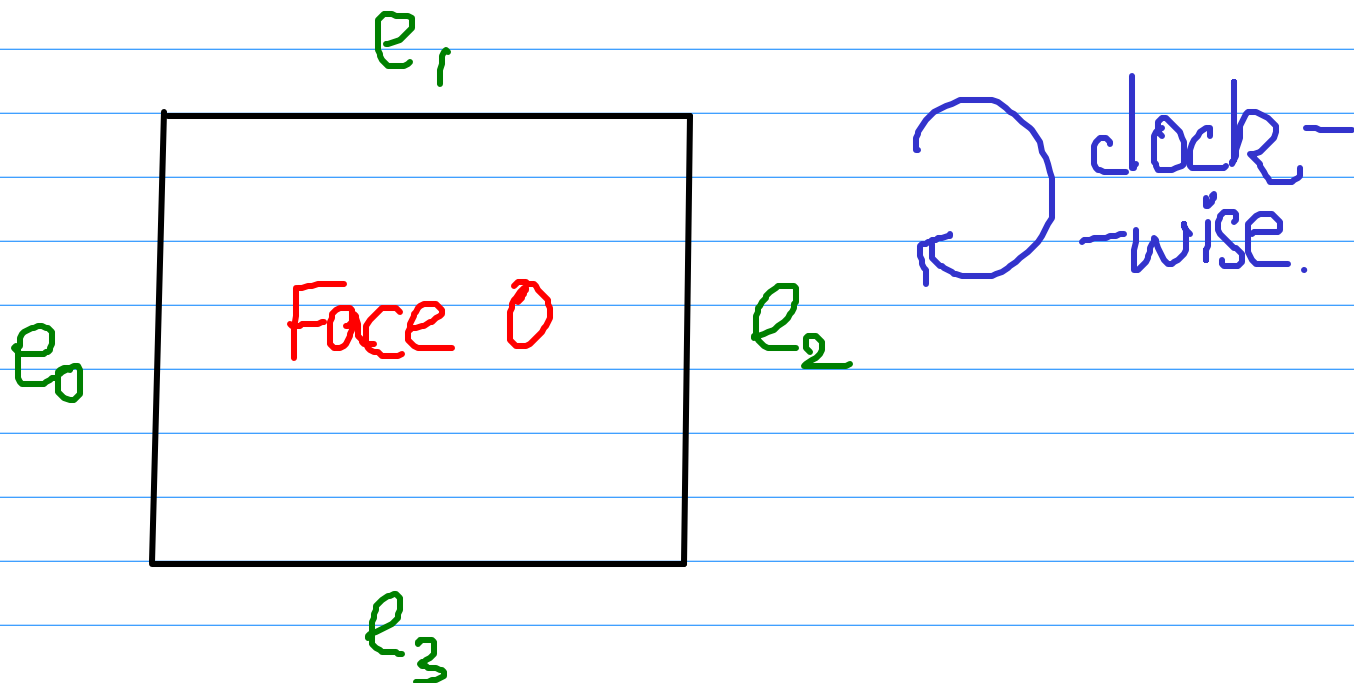


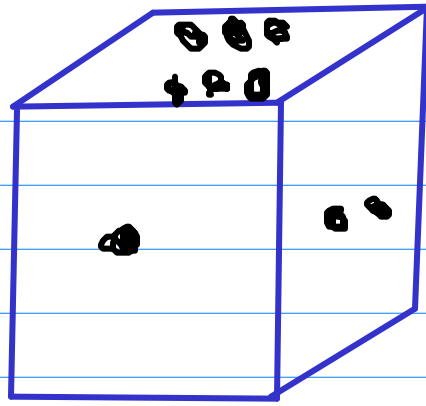
C++ LAB 2

Sep 15

- What you have done so far :



- DXEL \rightarrow Higher Dimensional Objects
 \Downarrow
More than one face



Eg. Cube has
6 faces

We need to
represent them

→ Done using Twin
Pointers between faces.

- New Functionality
split (e_1, e_2)

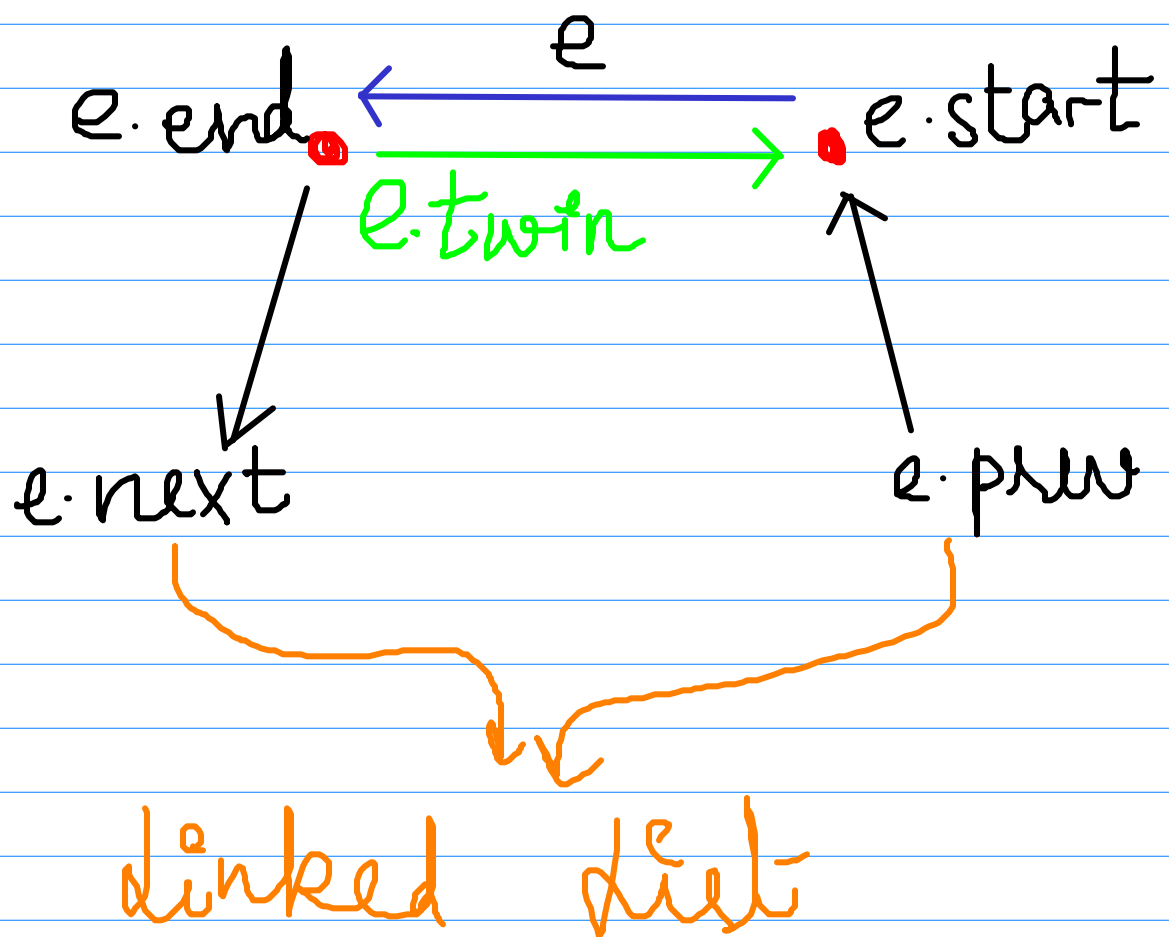
edge indices,
given in
a file.

Do it in C++ (Classes)

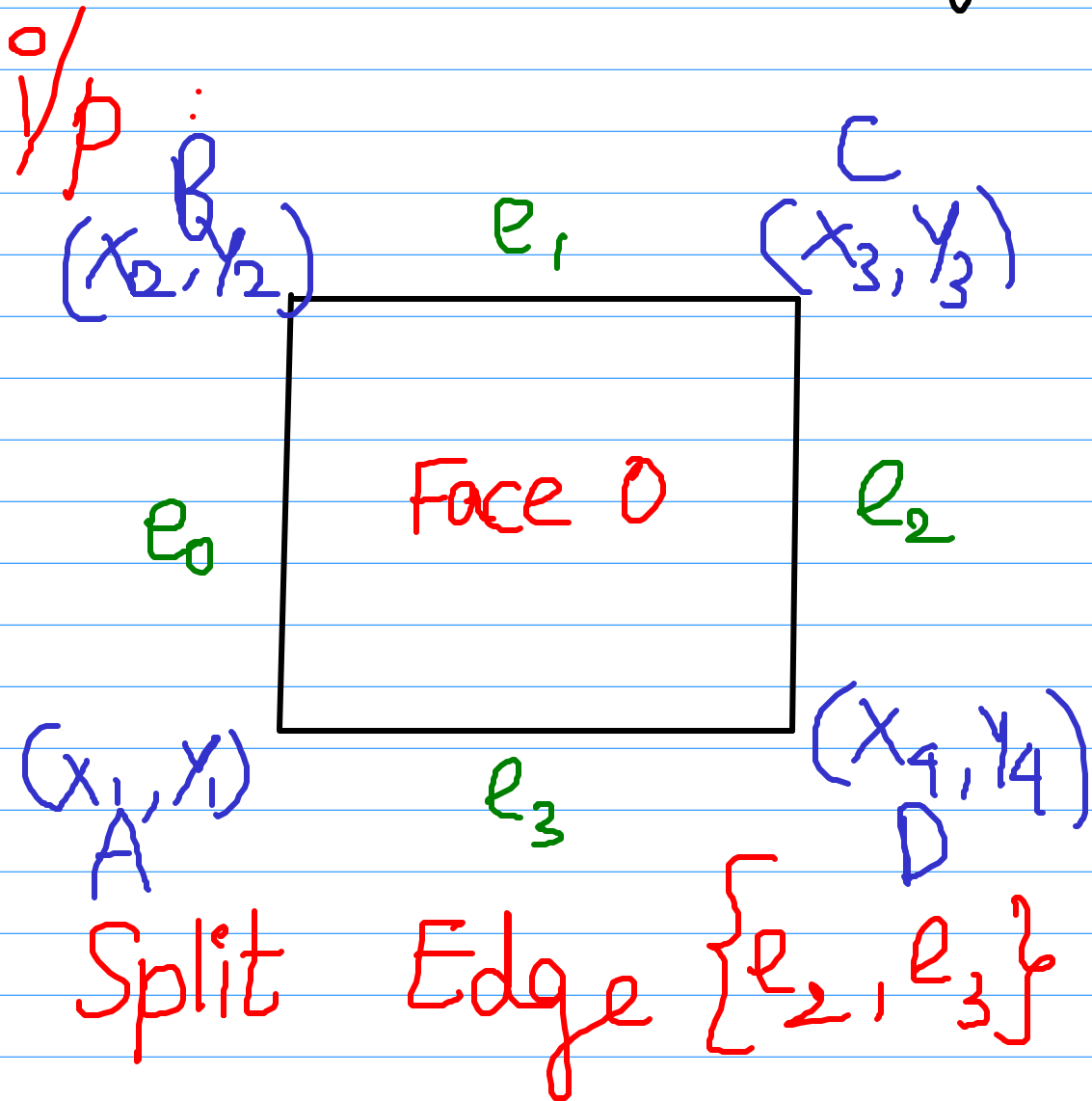


- But, before that, what is a twin pointer!?

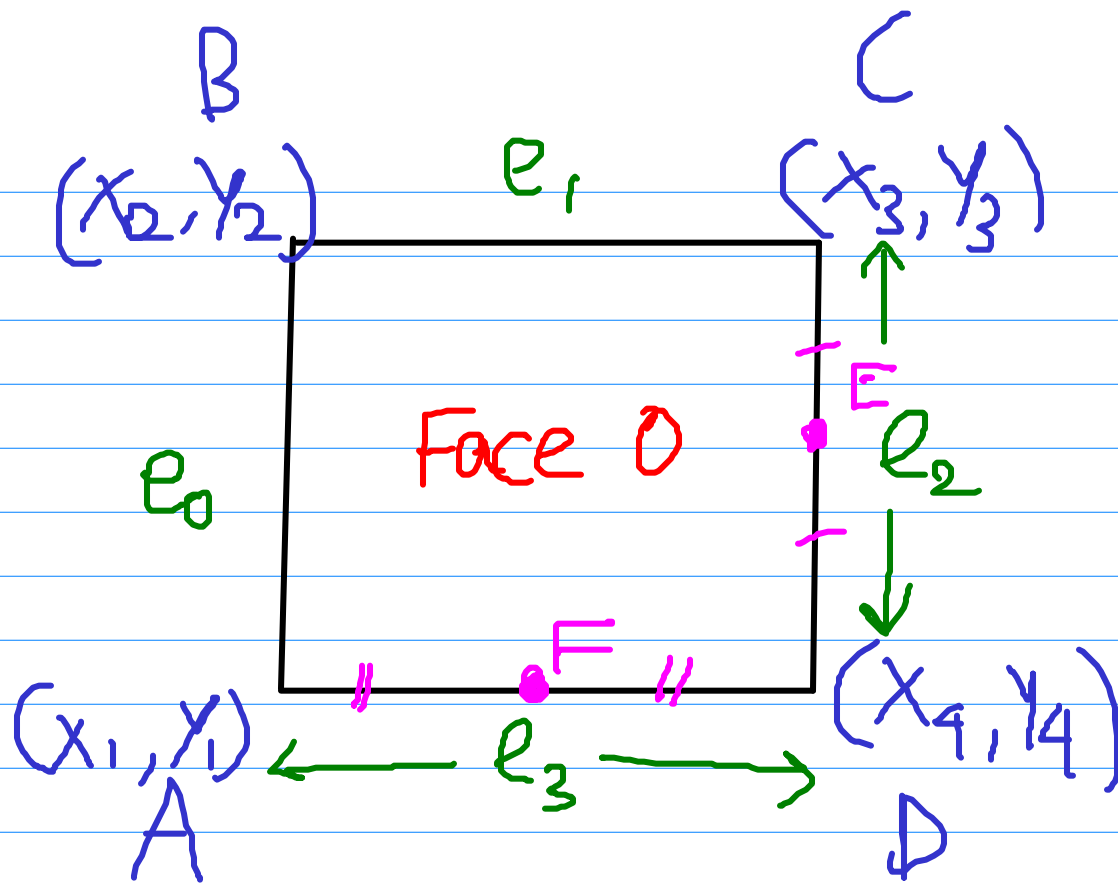
(Note: You don't need it for lab 1, but you need it for lab 2.)



- Split function Walkthrough:

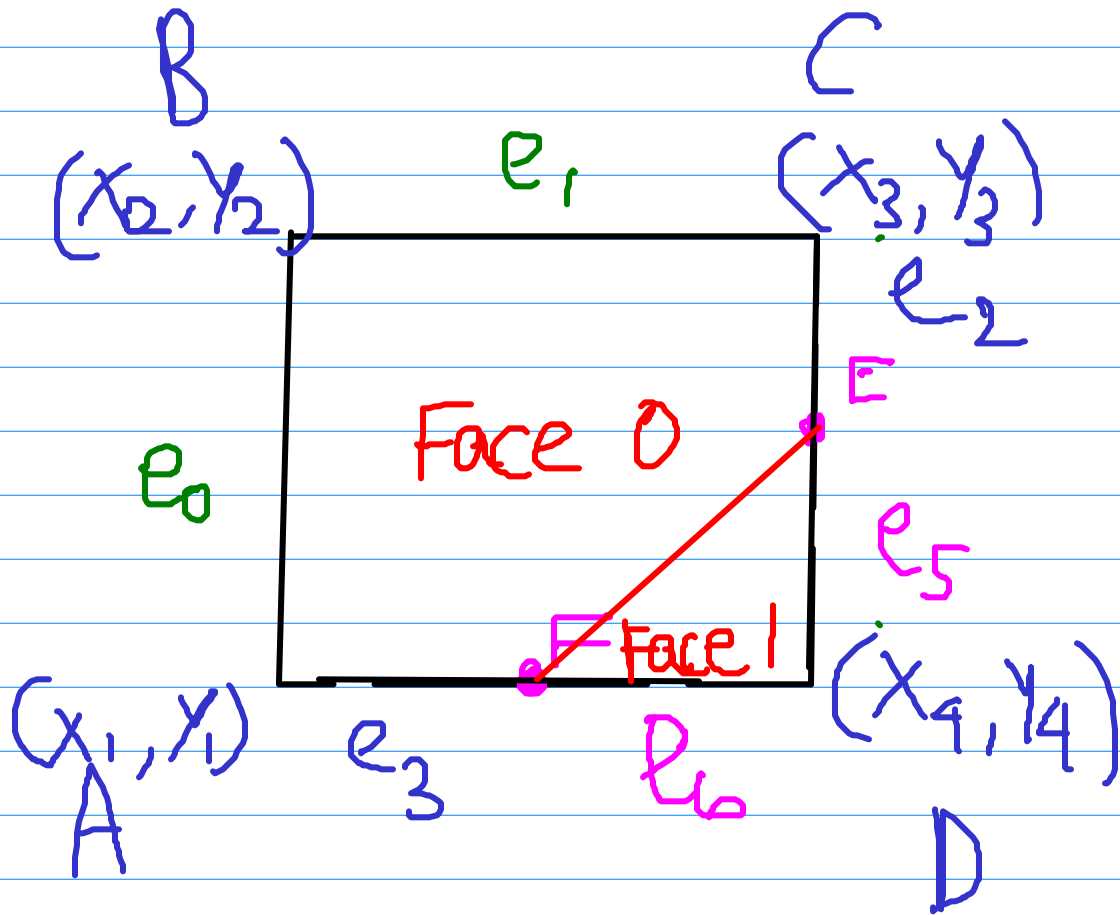


- ① Add new vertices at the edge bisection.



- ② Connect these vertices with a new edge.
Also, re-number existing edges.
(and create new

faces, if necessary.)



③ Respect the "clockwise order" feature of DCEL.

- Things to note:

① Print ~~of~~ after every split

(Format same as that of Lab 1.)

② There will be multiple splits

③ There will be multiple test cases 