verte	x coor	(0,2) $(2,0)$		$\begin{array}{c} \text{incident edge} \\ \vec{ba} \\ \vec{db} \\ \vec{dc} \end{array}$		
a	(1					
b						
c	(:	(2,4)		$ec{dc}$		
:		:		:		
					_	
half-edge	origin	face	twin	next	prev	
$ec{fe}$ $ec{ca}$	f	f_2	\vec{ef}	$ec{ec}$	\vec{df} \vec{dc} \vec{fd}	
\vec{ca}	\mathbf{c}	f_1	\vec{ac}	$ec{ab}$	\vec{dc}	
$ec{db}$	d	f_3	\vec{bd}	\vec{ba}	\vec{fd}	
:	÷	÷	÷	÷	:	
•	boundary hole					
	face	edge	lis	st		
	f_1	\vec{ab}	n	il		
	f_2	\vec{fe}	n			
	f_3	nil	n	il		