Table 1: Vertex records.

vertex

a	(0,2)	\vec{ba}
b	(2,0)	$ec{db}$
c	(2,4)	$ec{d}c$
:	:	:
Ta	ıble 2: Face	records.

coordinates incident edge

	boundary	hole
face	edge	list
f_1	\vec{ab}	nil
f_2	fe nil	nil
f_3	nil	nil

Table 3: Half-edge records.

g								
half-edge	origin	face	twin	next				
$ec{f}e$	f	f_2	\vec{ef}	\vec{ec}				

 \vec{ab} \vec{ac}

 \vec{ca} \vec{db} f_3 \vec{bd} \vec{ba} d

prev