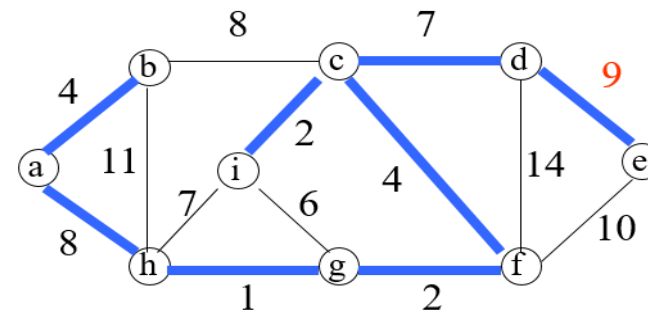
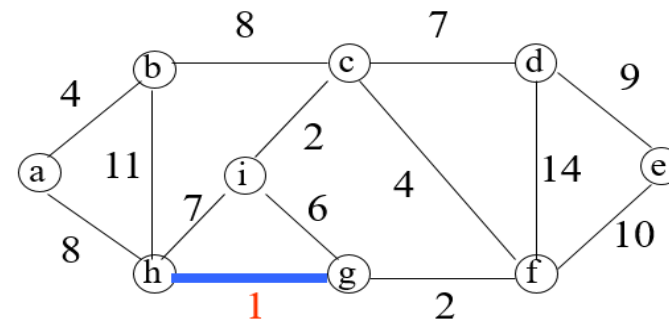


V and descriptions									
set	1	2	3	4	5	6	7	8	9
v	a	b	c	d	e	f	g	h	i
g-h									
g=7, h=8									
A: g-h,									
set	1	2	3	4	5	6	7	7	9
v	a	b	c	d	e	f	g	h	i
c-i									
c=3, i=9									
A: g-h, c-i									
set	1	2	3	4	5	6	7	7	3
v	a	b	c	d	e	f	g	h	i
f-g									
f=6, g=7									
A: g-h, c-l, f-g									
set	1	2	3	4	5	7	7	7	3
v	a	b	c	d	e	f	g	h	i
a-b									
a=1, b=2									
A: g-h, c-l, f-g, a-b									
set	2	2	3	4	5	7	7	7	3
v	a	b	c	d	e	f	g	h	i
c-f									
c=3, f=7									
A: g-h, c-l, f-g, a-b, c-f									
set	2	2	7	4	5	7	7	7	7
v	a	b	c	d	e	f	g	h	i
g-i									
g=7, i=7									
g-i SHOULD NOT BE ADDED									
A: g-h, c-l, f-g, a-b, c-f									
set	2	2	7	4	5	7	7	7	7
v	a	b	c	d	e	f	g	h	i
c-d									
c=7, d=4									
A: g-h, c-l, f-g, a-b, c-f, c-d									
set	2	2	7	7	5	7	7	7	7
v	a	b	c	d	e	f	g	h	i
h-i									
h=7, i=7									
h-i SHOULD NOT BE ADDED									
A: g-h, c-l, f-g, a-b, c-f, c-d									
set	2	2	7	7	5	7	7	7	7

Edge and weight

1	g	h	1
2	c	i	2
3	f	g	2
4	a	b	4
5	c	f	4
6	g	i	6
7	c	d	7
8	h	i	7
9	a	h	8
10	b	c	8
11	d	e	9
12	e	f	10
13	b	h	11
14	d	f	14



v	a	b	c	d	e	f	g	h	i
a-h			a=2, h=7						
A: g-h, c-l, f-g, a-b, c-f, c-d, a-h									
set	7	7	7	7	5	7	7	7	7
v	a	b	c	d	e	f	g	h	i
b-c			b=7, c=7		b-c SHOULD NOT BE ADDED				
A: g-h, c-l, f-g, a-b, c-f, c-d, a-h									
set	7	7	7	7	5	7	7	7	7
v	a	b	c	d	e	f	g	h	i
d-e			d=7, e=5						
A: g-h, c-l, f-g, a-b, c-f, c-d, a-h, d-e					DONE  V  - edges				
set	7	7	7	7	7	7	7	7	7
v	a	b	c	d	e	f	g	h	i

MST\_KRUSKAL(G,w)

```

1  A:={}
2  for each vertex v in V[G]
3    do MAKE_SET(v)
4  sort the edges of E by nondecreasing weight w
5  for each edge (u,v) in E, in the order by nondecreasing
   weight
6    do if FIND_SET(u) != FIND_SET(v)
7       then A:=A ∪ {(u,v)}
8           UNION(u,v)
9  return A

```