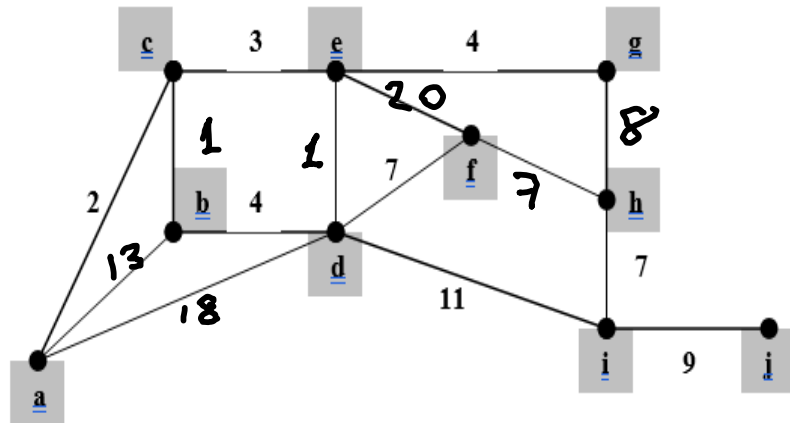


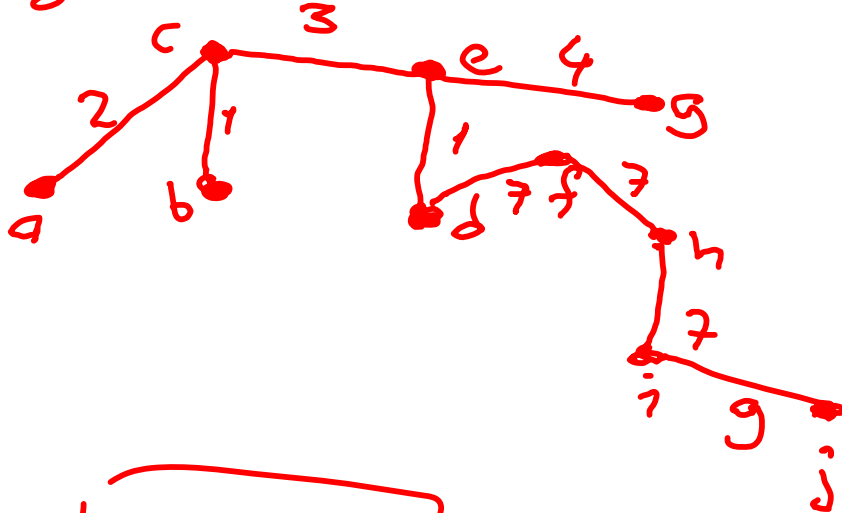
24.06.2021

Örnek 1: Aşağıdaki graf için Kruskal ve Prim algoritmalarını uygulayınız.



Kruskal Alg.

- ↓
- a-b 1 ✓
  - c-b 1 ✓
  - c-a 2 ✓
  - c-e 3 ✓
  - e-g 4 ✓
  - b-d 4 ✗
  - d-f 7 ✓
  - h-i 7 ✓
  - h-f 7 ✓
  - g-h 8 ✗
  - i-j 9 ✓
  - d-i 11
  - a-c 13
  - a-d 18



$$\sum = 41$$

→ tüm tane tane yapıldı.

e-f 20

## Prim Algorithmu:

e tepeinden başlayalım.

~~e-c 3 \*~~

~~e-g 4 \*~~

~~e-b 1 \*~~

e-f 20

~~d-b 4 \*~~

~~d-f 7 \*~~

d-i 11

~~c-b 1 \*~~

~~c-a 2 \*~~

b-a 13

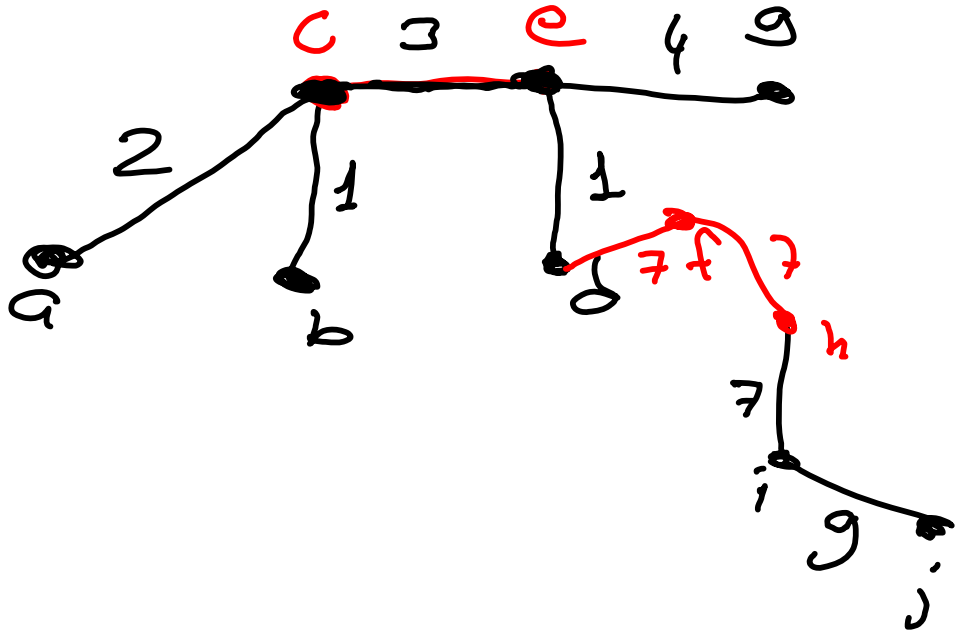
a-d 18

g-h 8

~~f-h 7 \*~~

~~h-i 7 \*~~

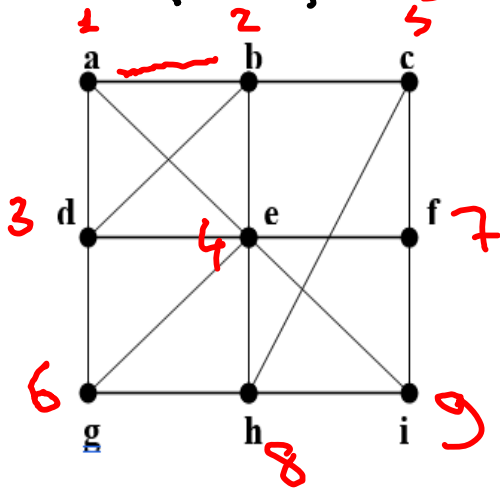
~~i-j 9 \*~~



10 tane tepe zind etdik.

$$\boxed{\Sigma = 41}$$

Örnek 2: Aşağıdaki graf için bir bölünmüş ağaç bulunuz.



$$i=1 \quad j \neq 2$$

$$j \neq 3$$

$$j \neq 4$$

---


$$i=2 \quad j \neq 5$$


---

---


$$i=3 \quad j \neq 6$$

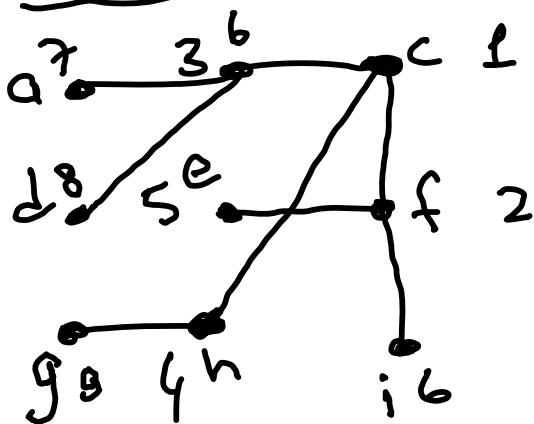
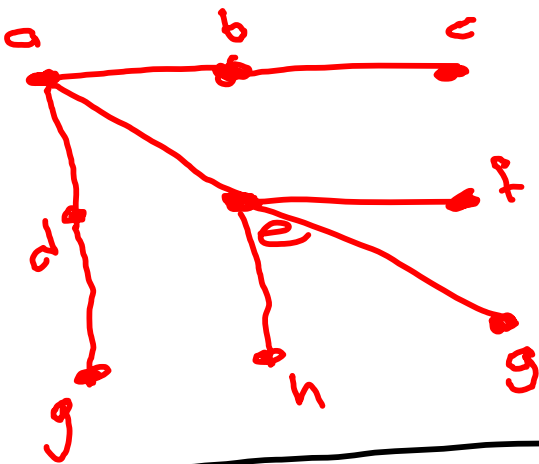

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$$i=4$$

$$j \neq 7$$

$$j \neq 8$$

$$j=9$$



$$i=1 \quad j \neq 2$$

$$j \neq 3$$

$$j \neq 4$$

---


$$i=2$$

$$j \neq 5$$

$$j \neq 6$$

---


$$i=3$$

$$j \neq 7$$

$$j \neq 8$$

---


$$i=4$$

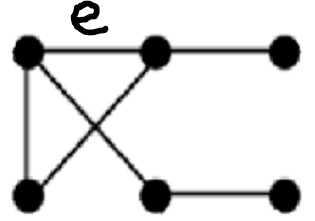
$$j=9$$

ok.

Örnek 3:

Yandaki çizgenin bütün dallanmış ağaçlarını çiziniz.

Kaç tane dallanmış ağaç var?



$$Z(G) = Z(G-e) + Z(G \cdot e)$$

$$= Z(\text{diagram 1}) + Z(\text{diagram 2})$$

Gevre yok

1

$$+ Z(\text{diagram 3}) + Z(\text{diagram 4})$$

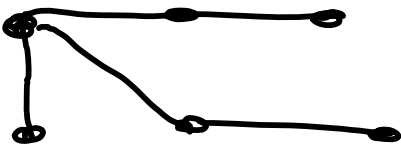
Gevre yok

2

Gevre yok

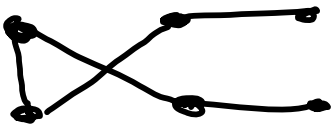
3

1



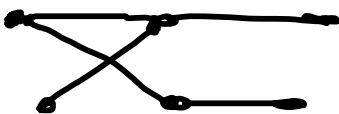
2

2



3

3



Algoritma Gevresizlikteki aygıtlar  
Alınarak, bölünme  
işlemi yaparak  
rekürsif olarak  
down eder.

Gekennzeichnet: Größere Elemente  $\angle$

Marker Algorithmen:  $\angle$