

B

H

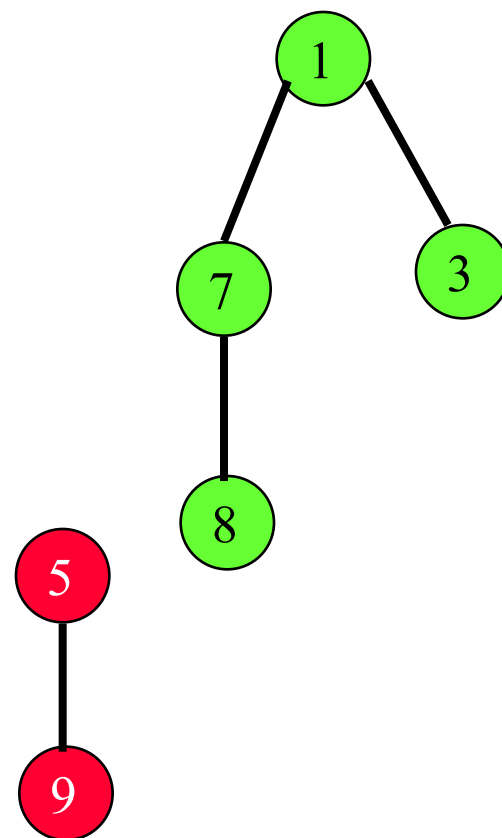
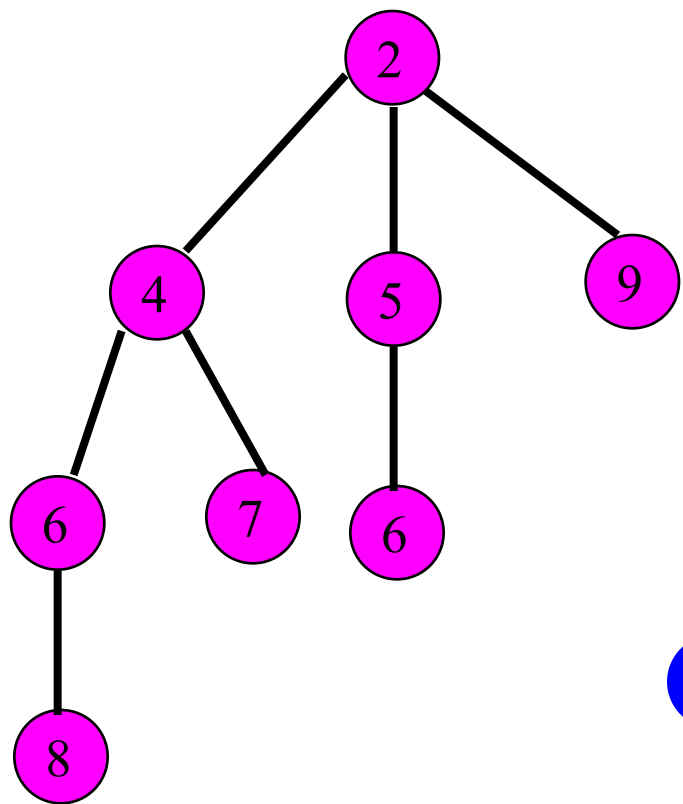


M B

H

C

.



N

S

D



N

C



P

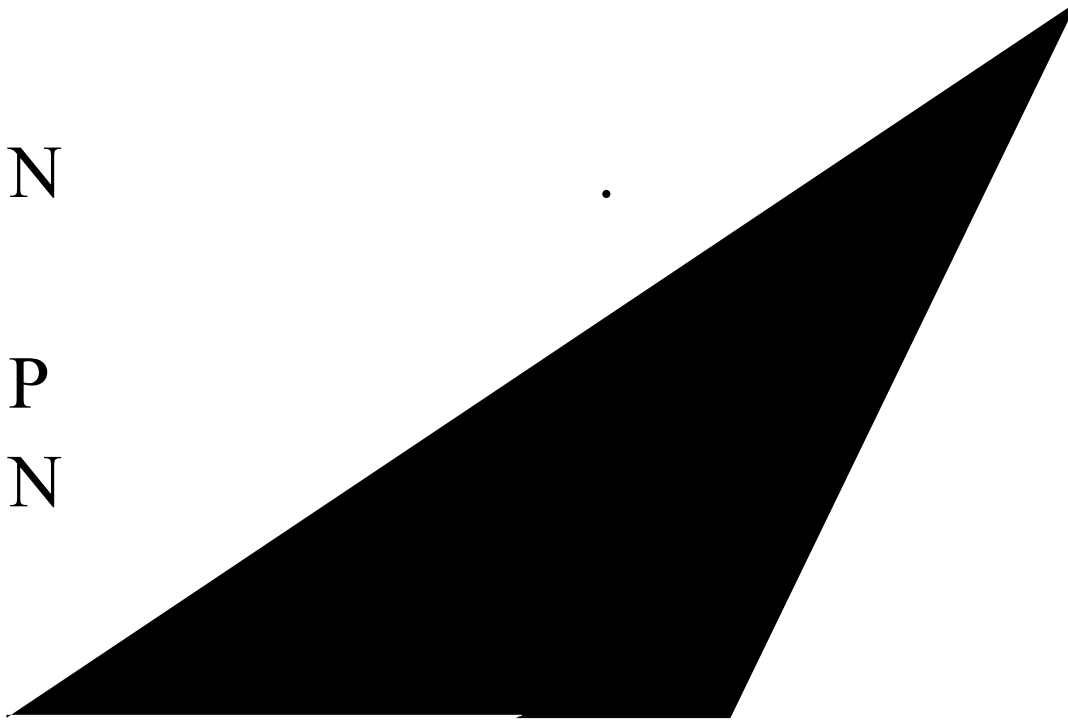


N

S



D



.

.

.

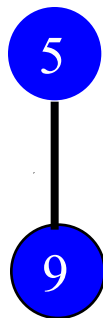
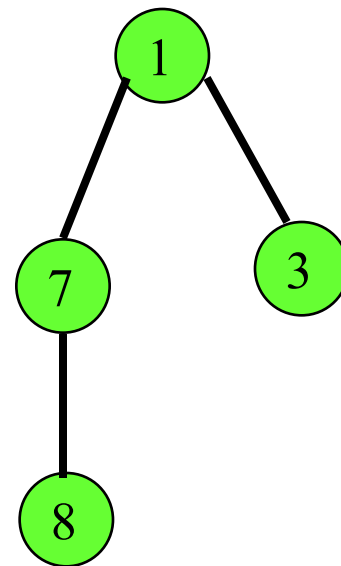
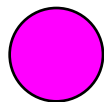
B

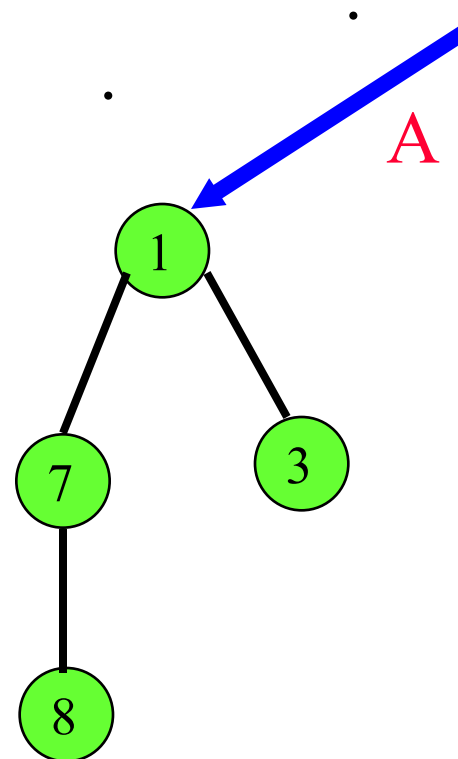
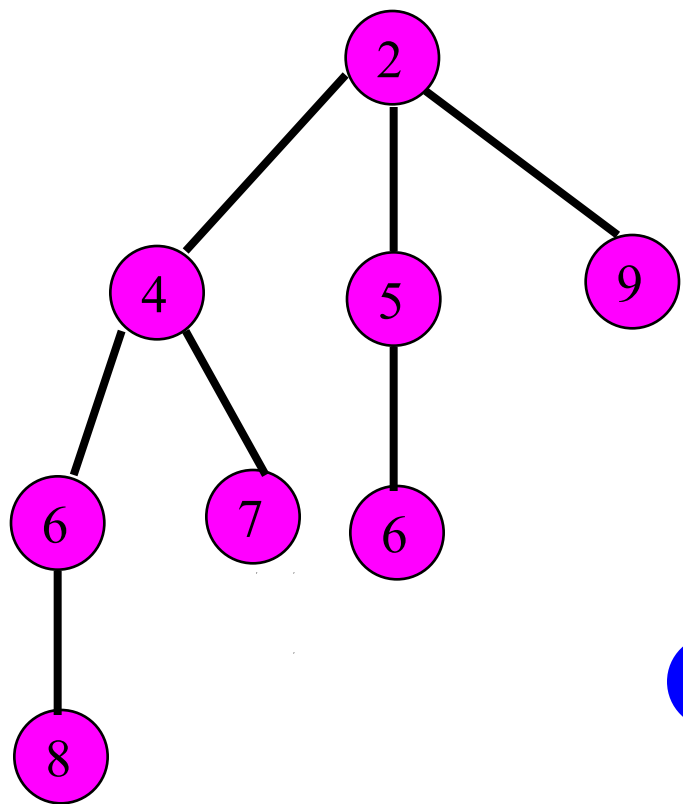
H

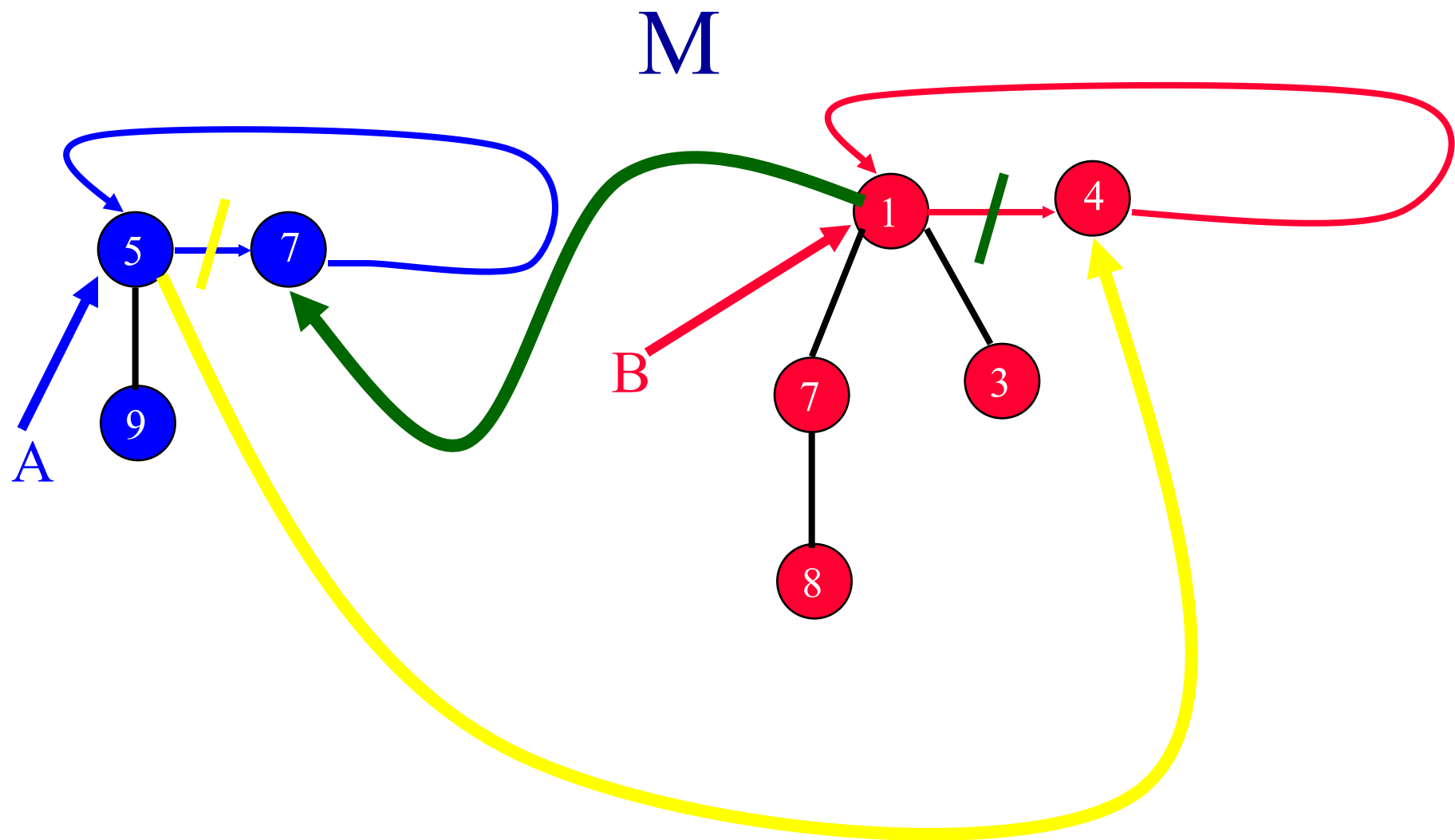
R

C

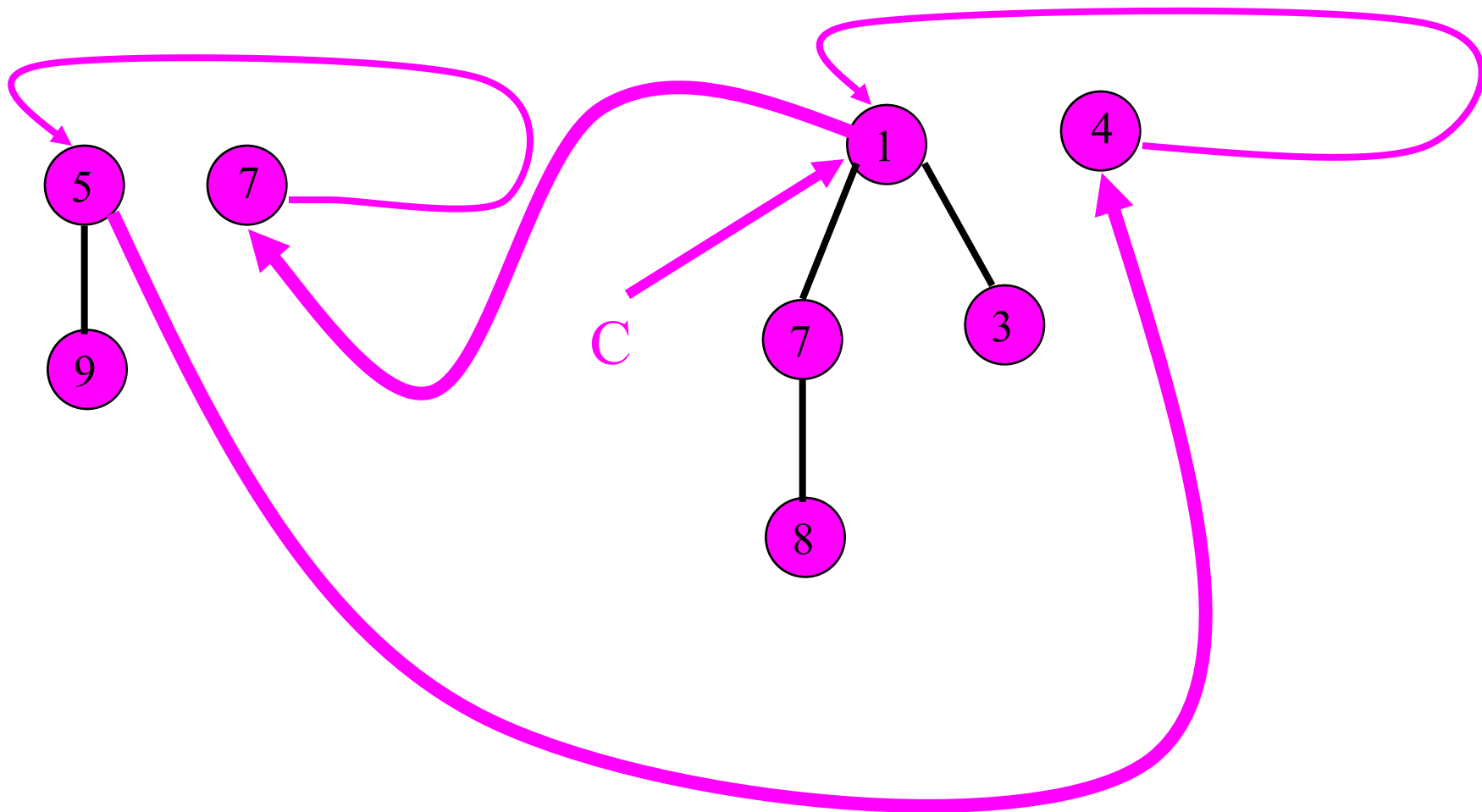
.







M



R

M

E

\Rightarrow

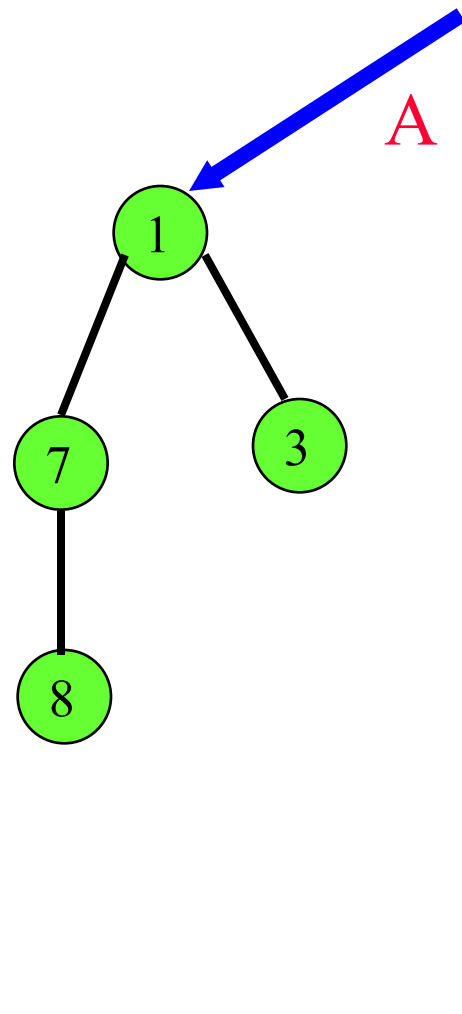
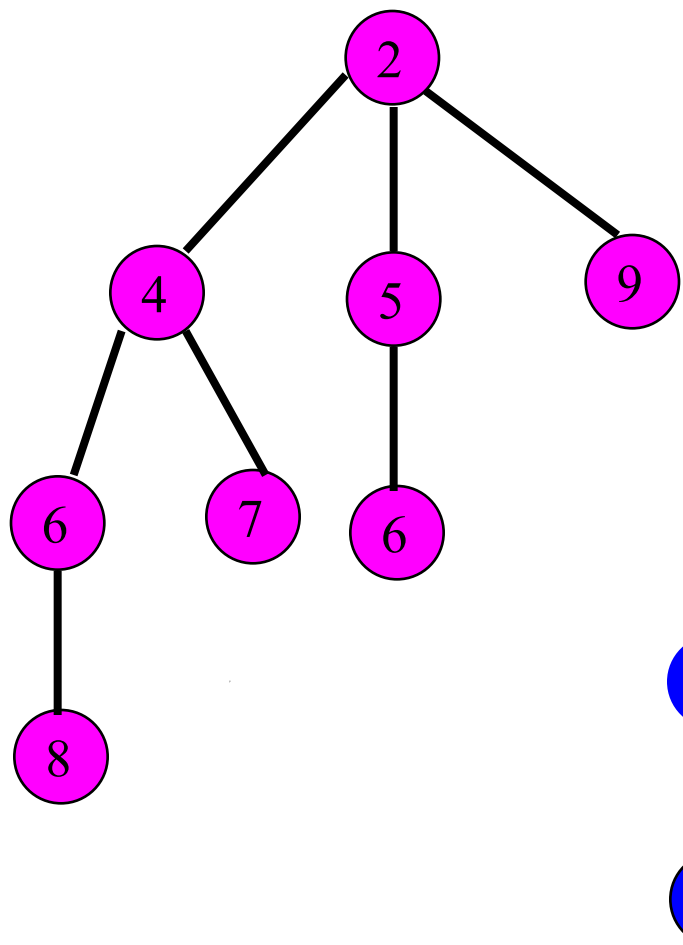
.

N

H

R

R



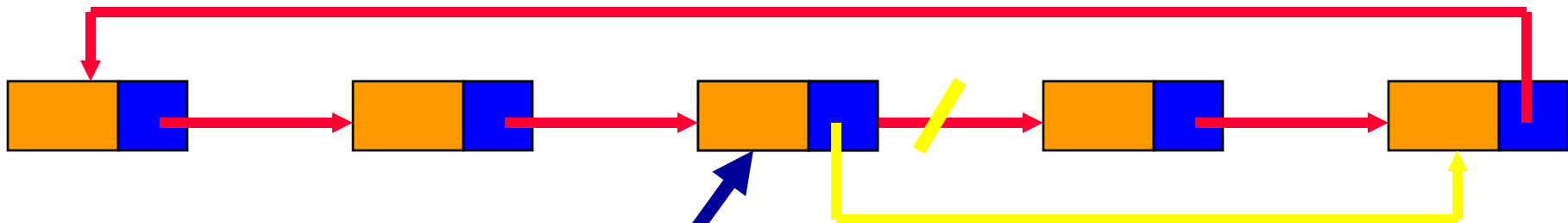
R

M

T

S

.



A

N

\Rightarrow

.

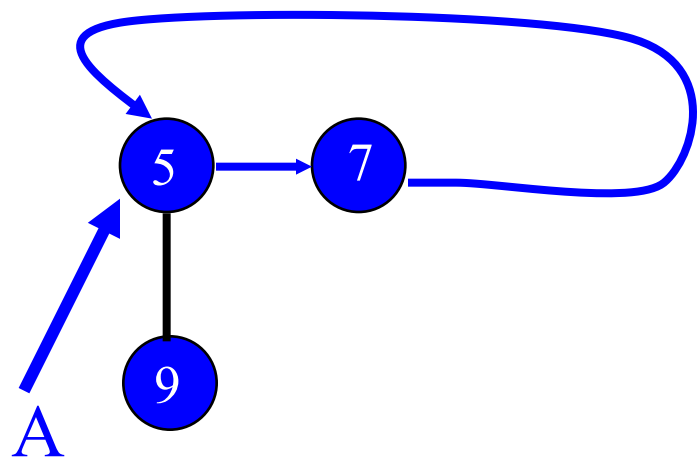
O

,

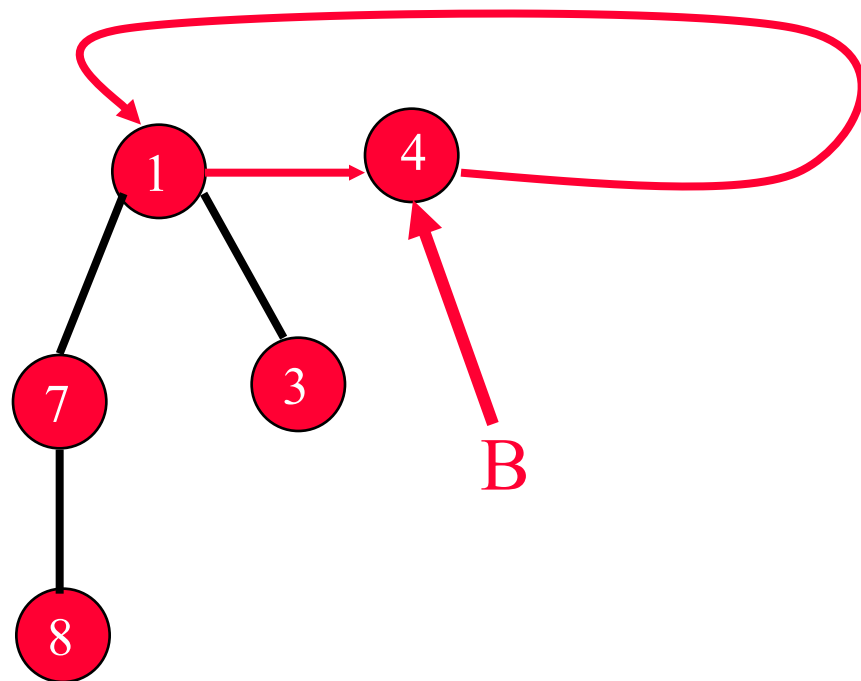
-

.

R



S



C

2

-

.



S

.



M

.

C

O R

M

R

▪ $O(1)$.

R

▪ $O(1)$.

▪ $O()$,

▪ $= O()$.

O

$O()$.

E

R

M

D

,

.

P

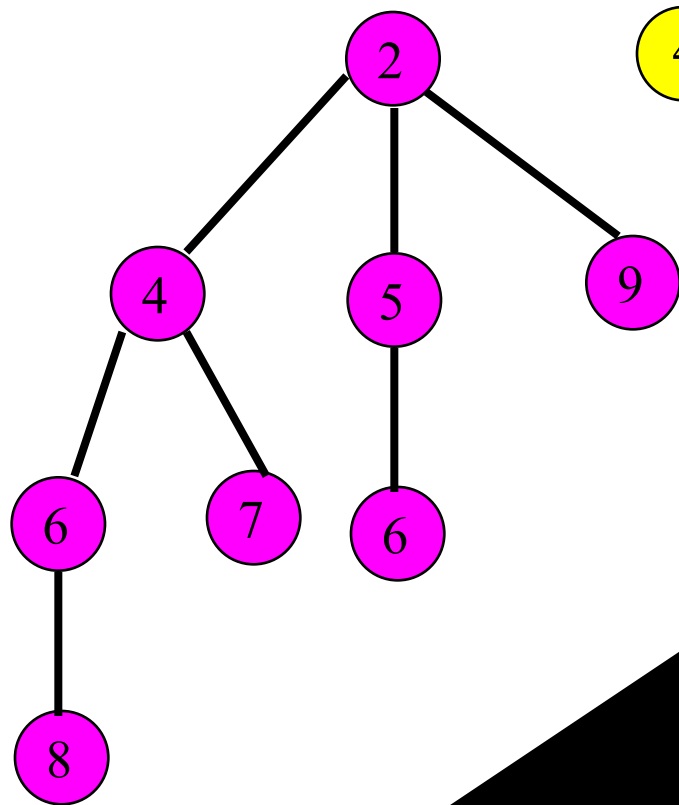
C

10

6

P

C



4	
3	
2	
1	
0	

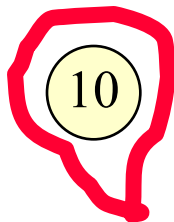
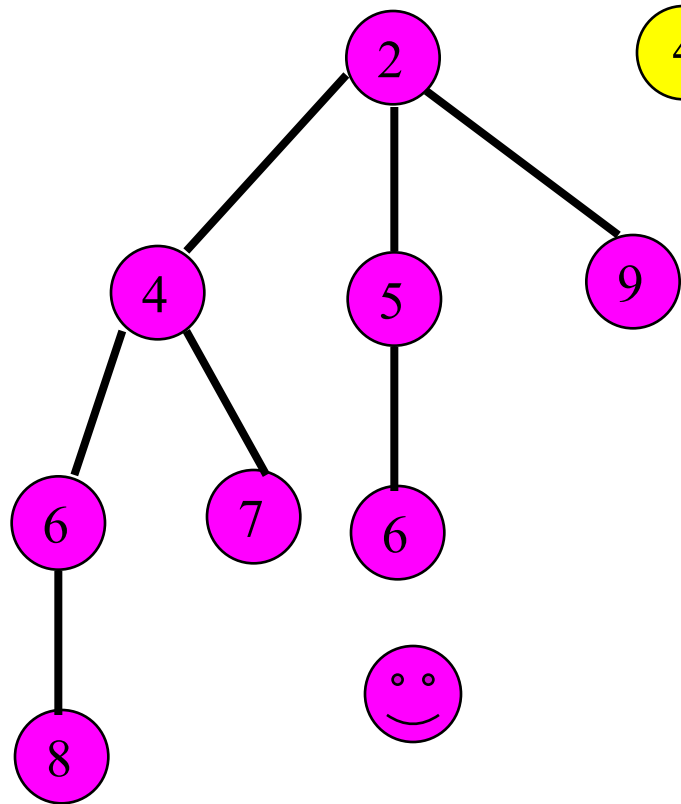
P

C



P

C

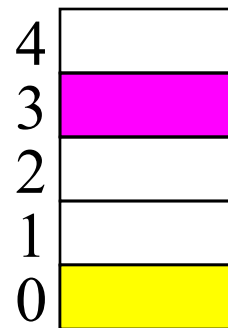


C

2

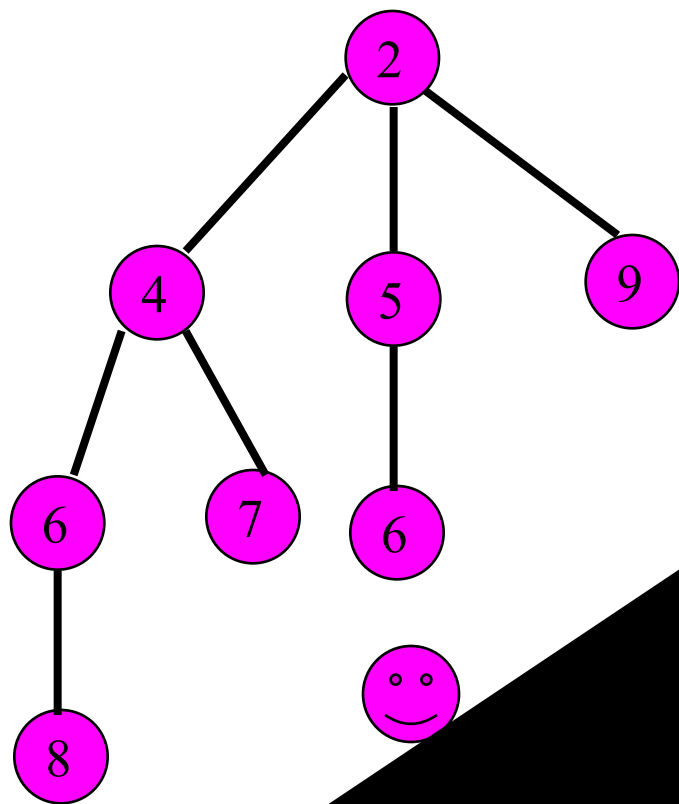
0.

M



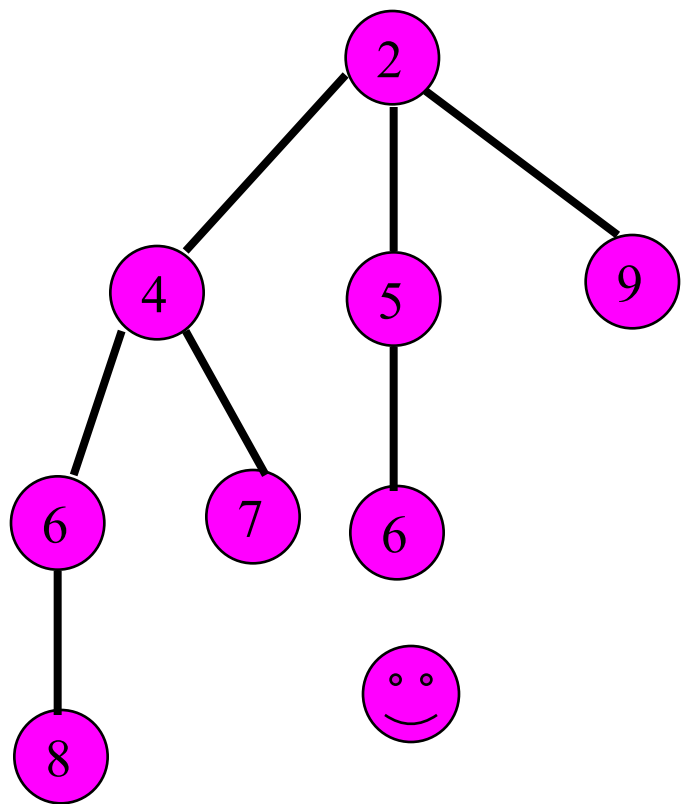
P

C

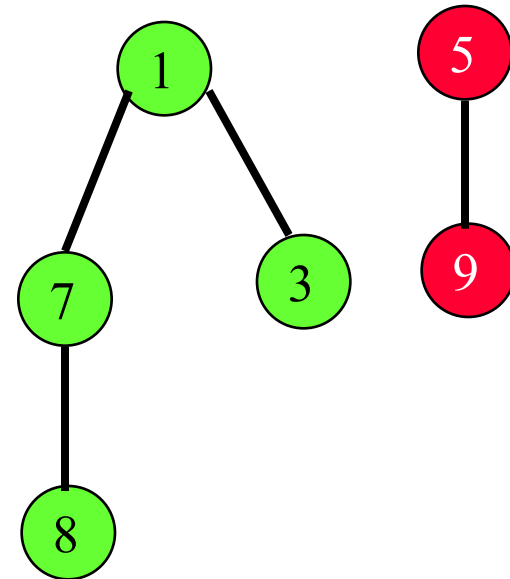
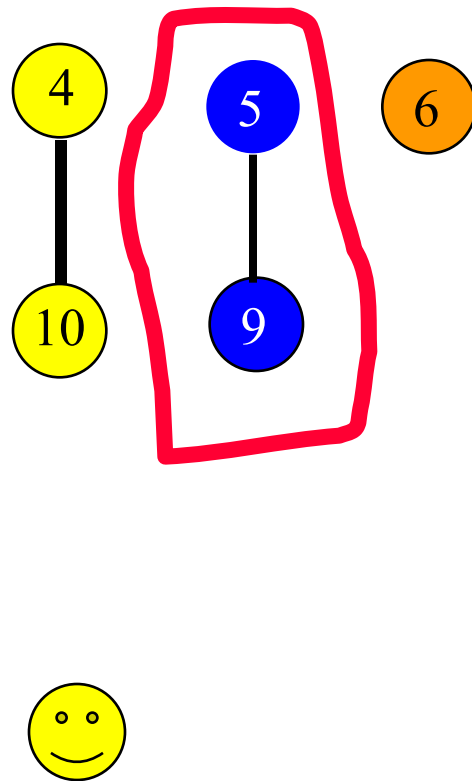


4	
3	
2	
1	
0	

P



C



C
M

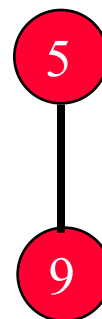
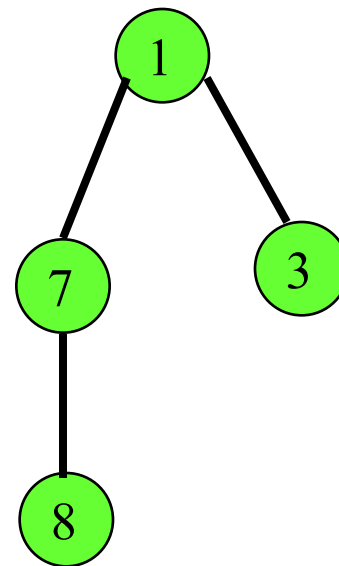
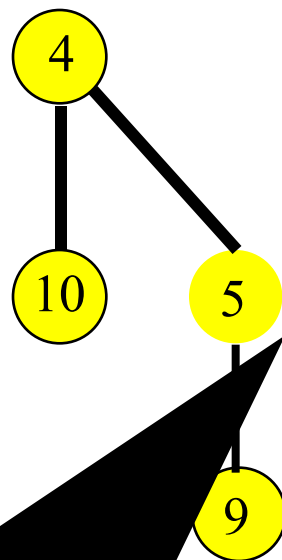
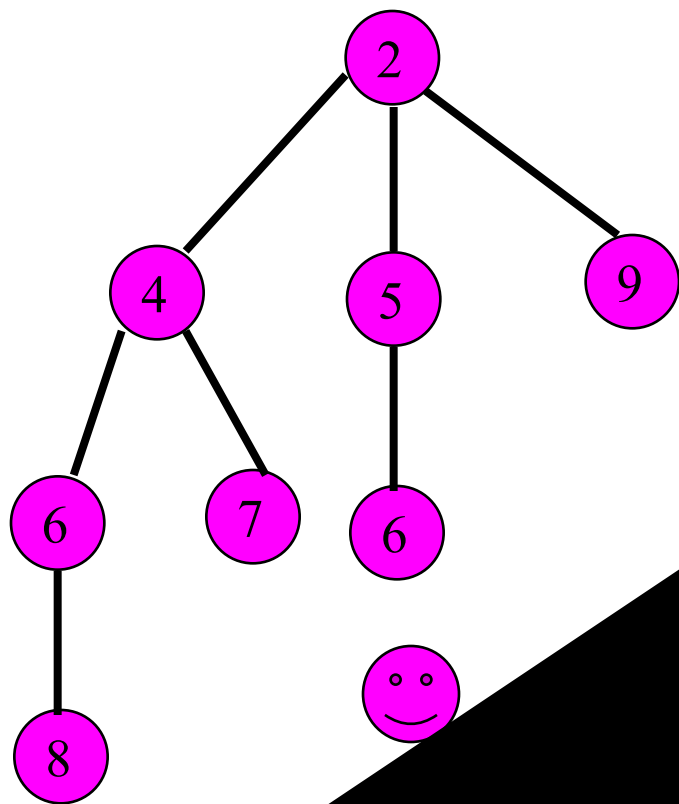
2

1.

4	
3	
2	
1	
0	

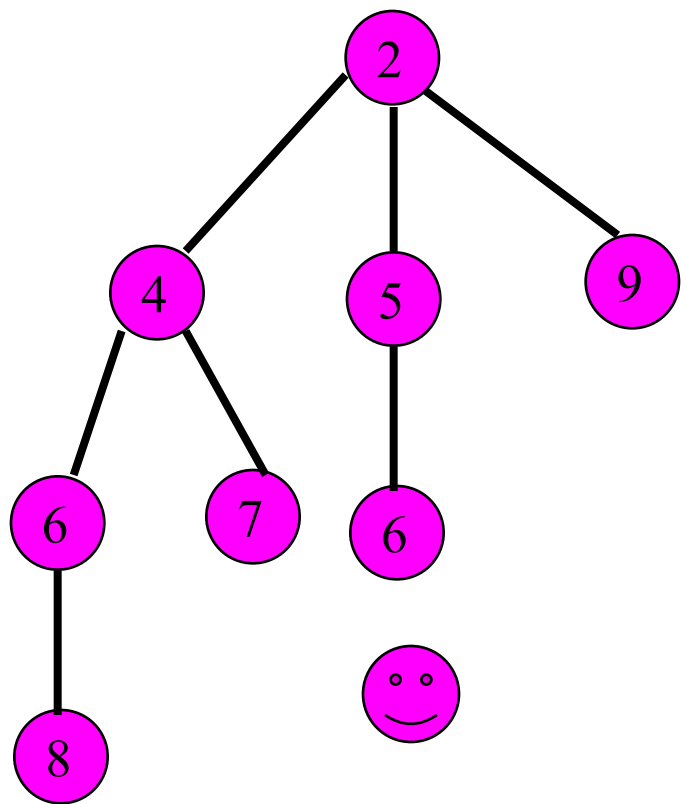
P

C

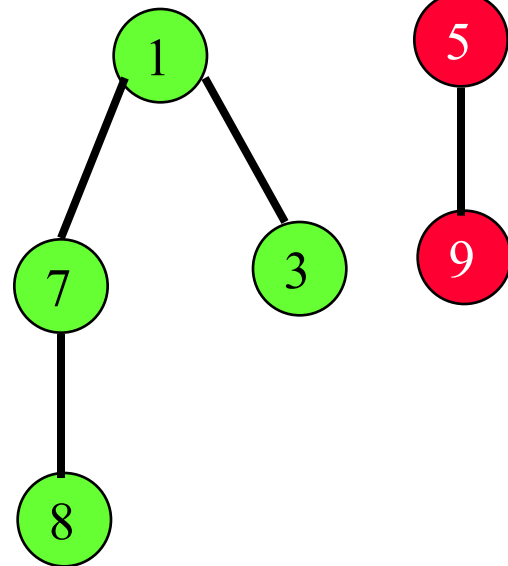
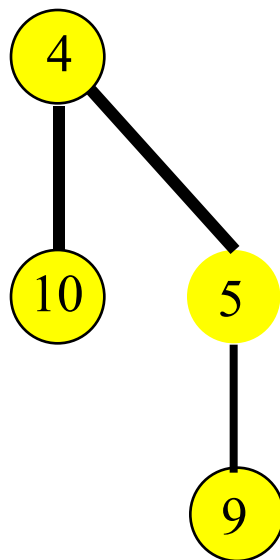


4	
3	
2	
1	
0	

P

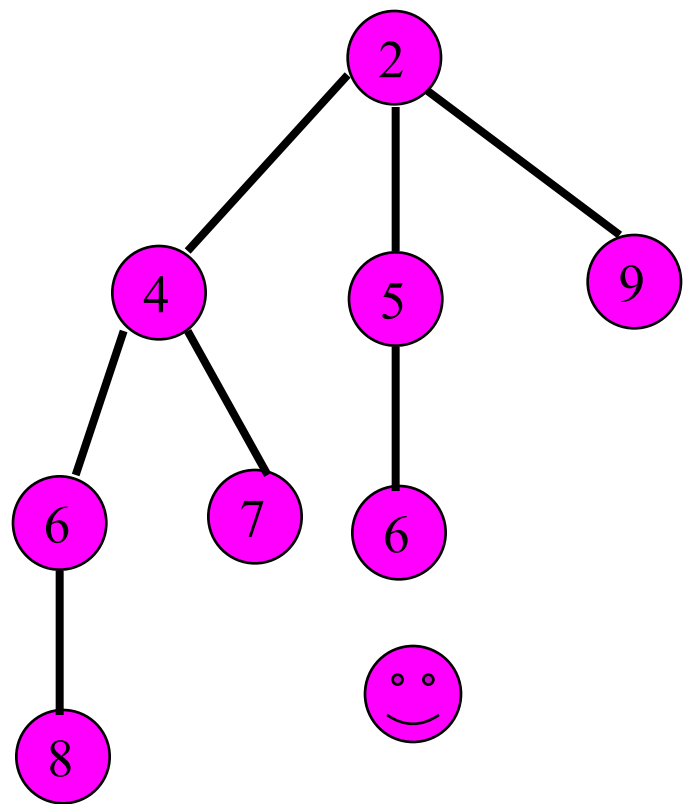


C

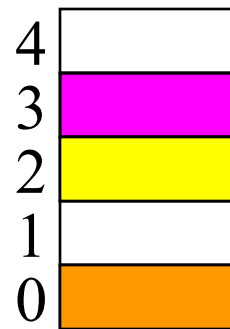
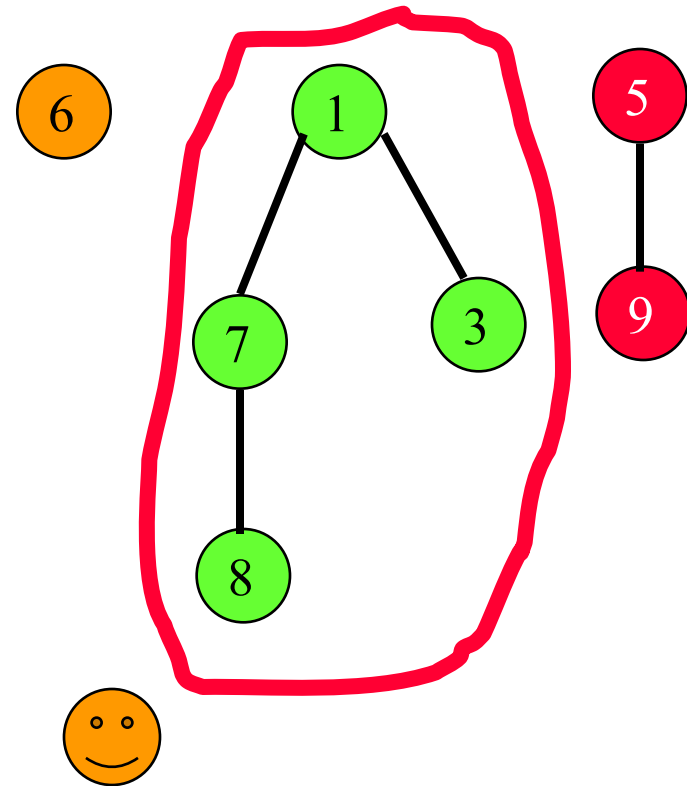
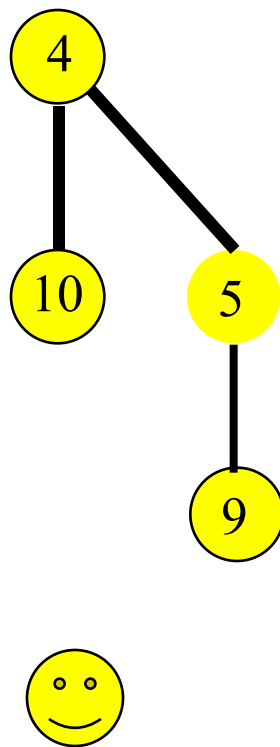


4	
3	
2	
1	
0	

P



C



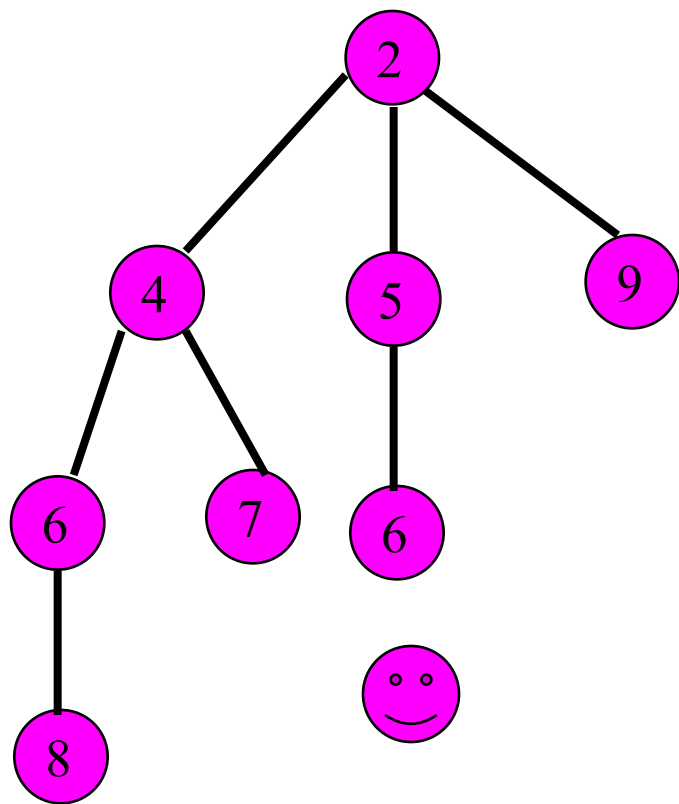
C
M

2

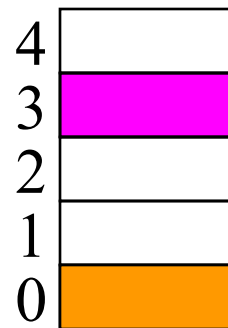
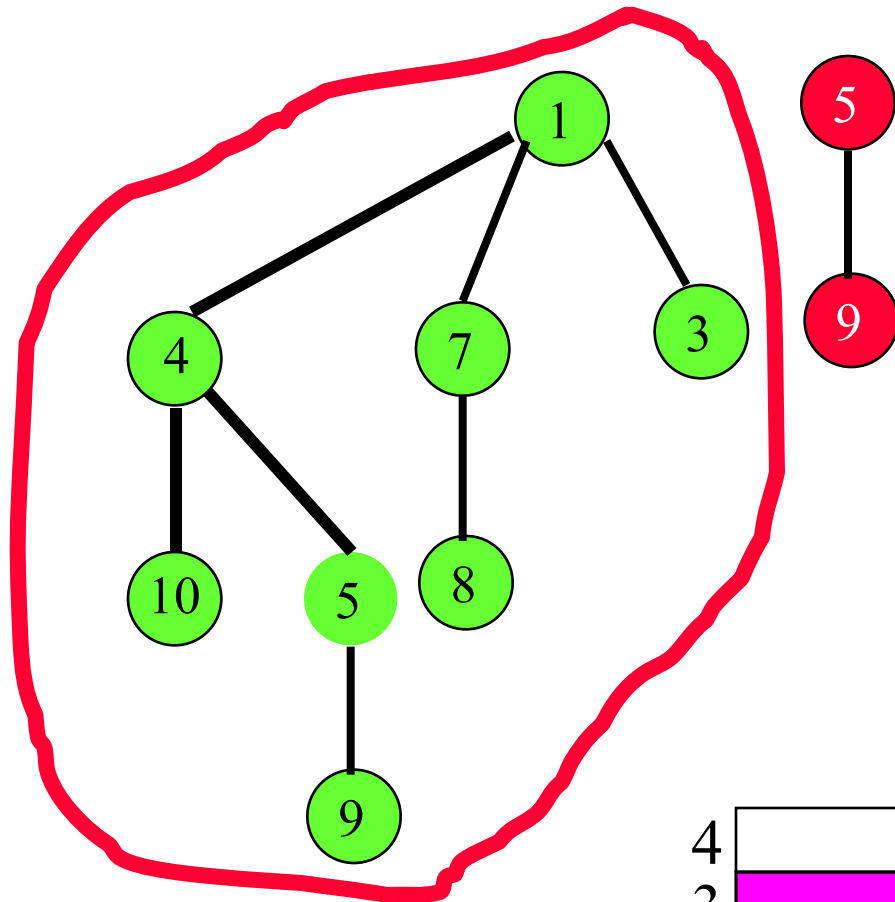
2.

.

P



C



C

2

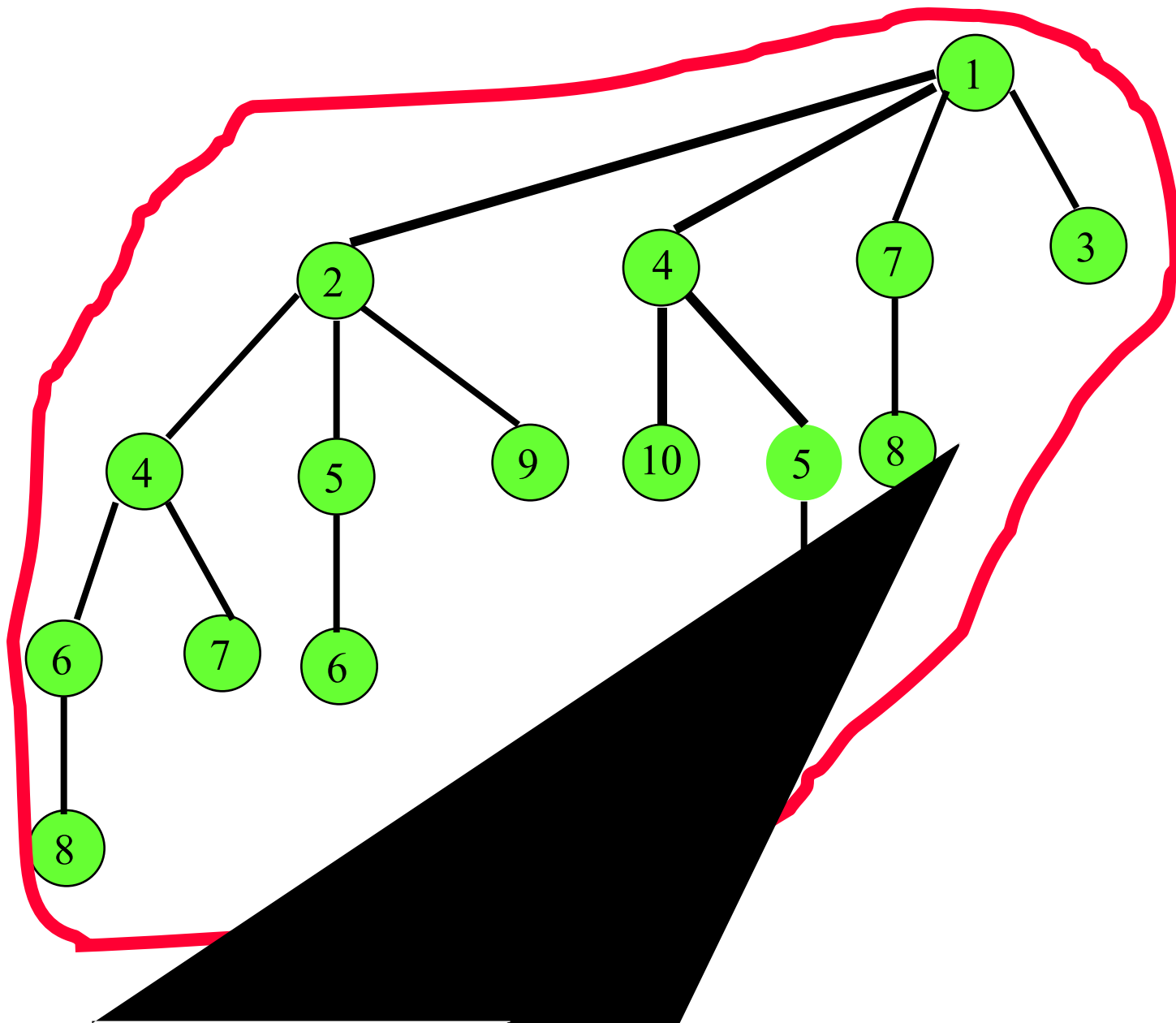
3.

M

.

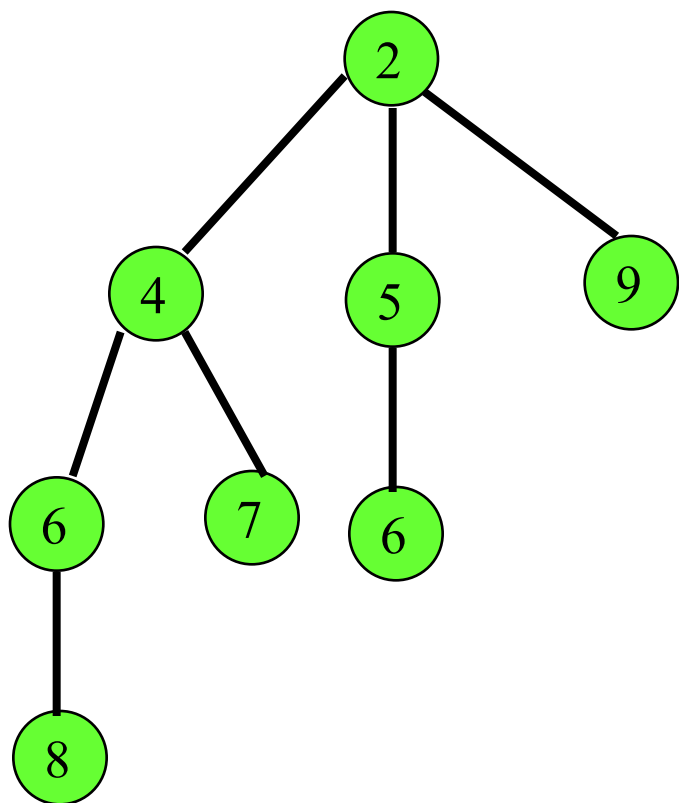
P

C

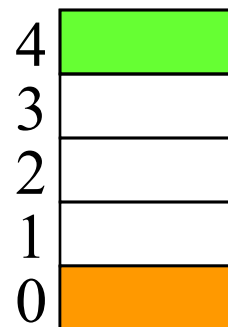
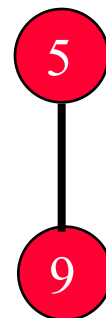
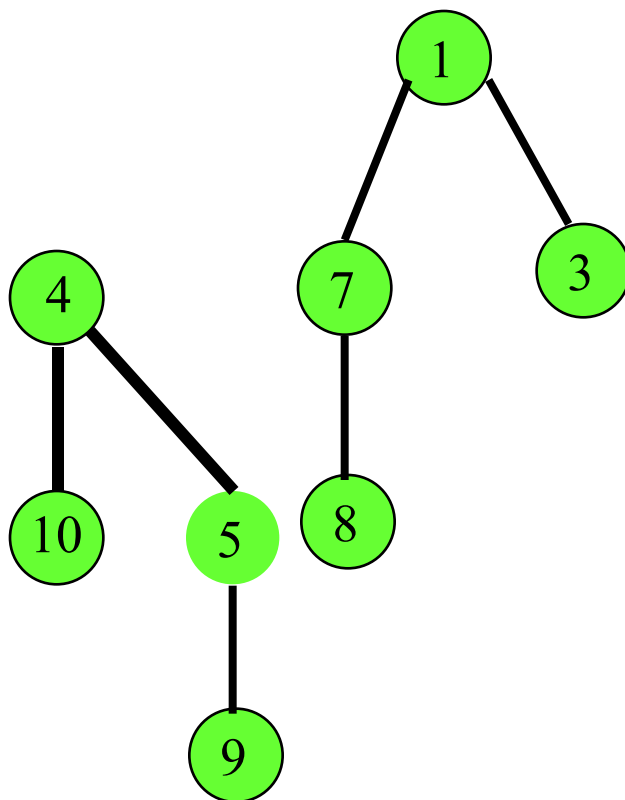


4	
3	
2	
1	
0	

P

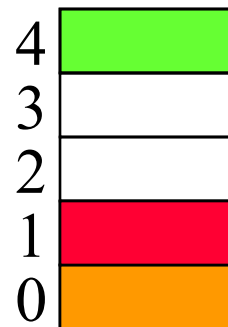
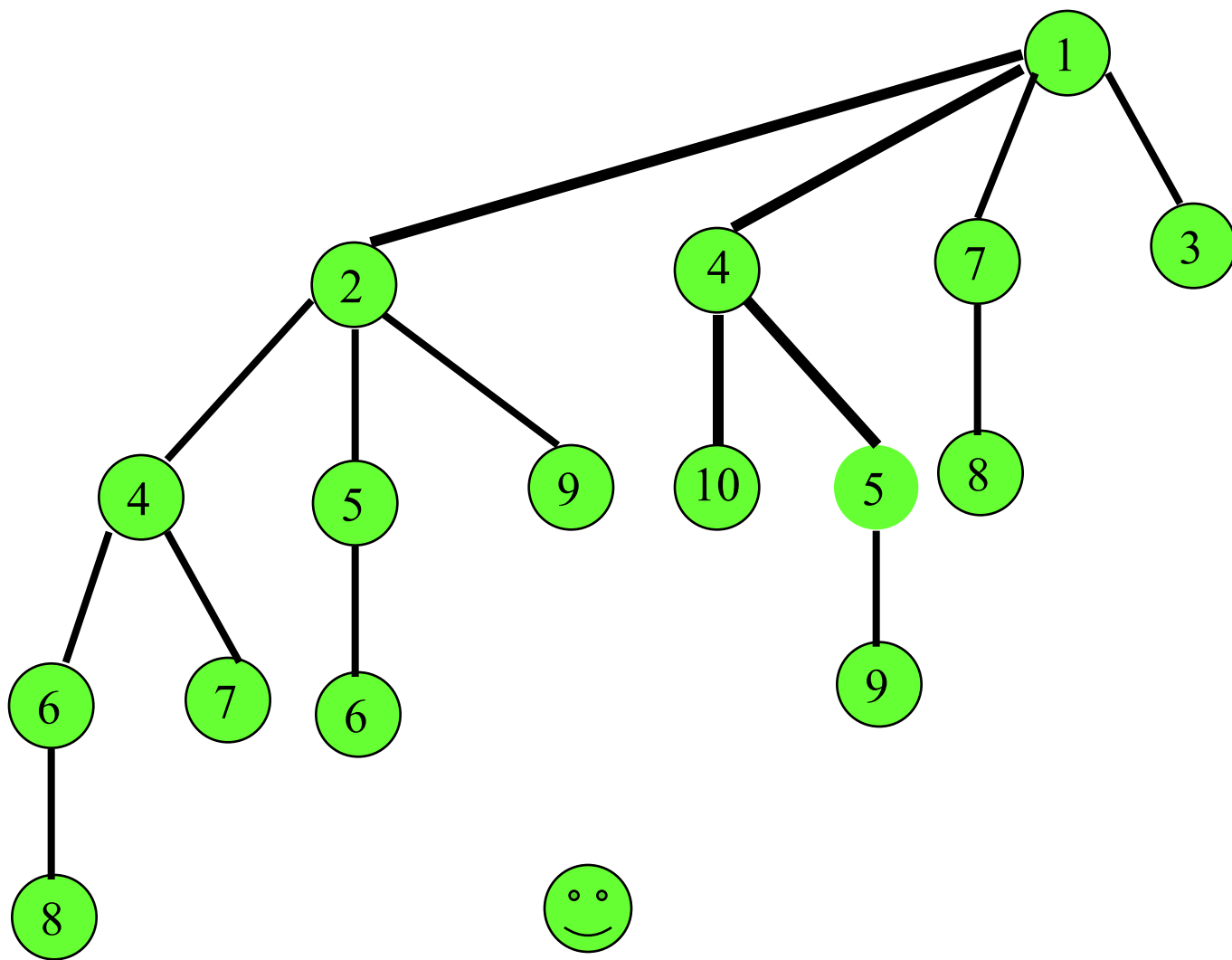


C



P

C



C

.

C

O R

M

C

- $O(M \cdot D)$.

- D .

E

- $O()$.

C

- $O(M \cdot D)$.

O

- $O(M \cdot D +)$.

B

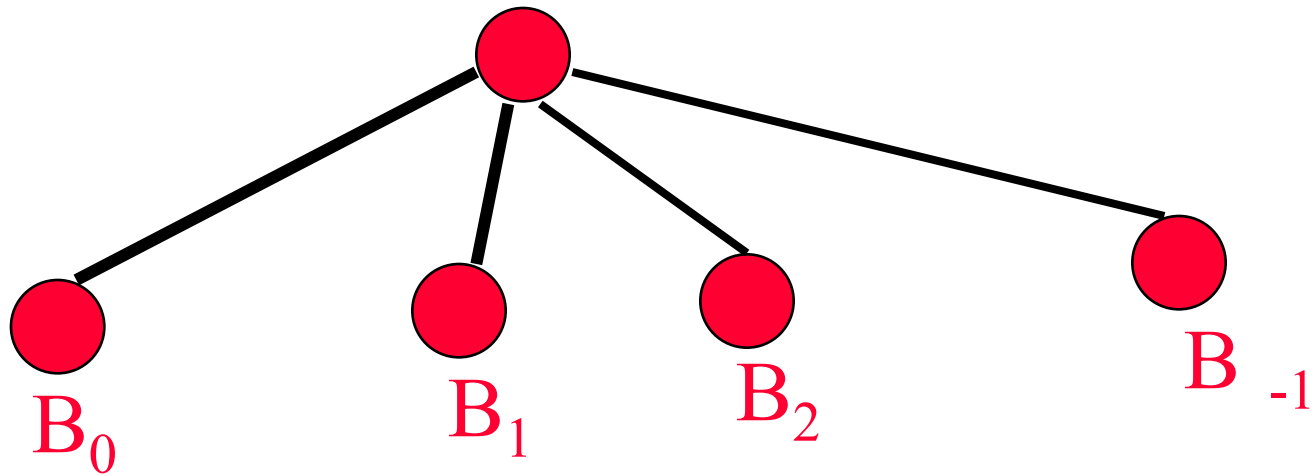
T

B

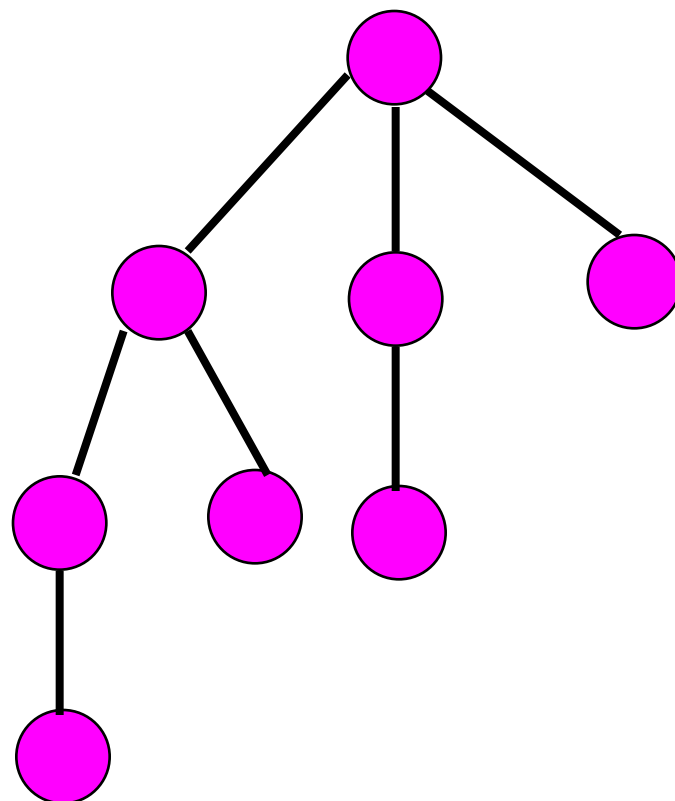
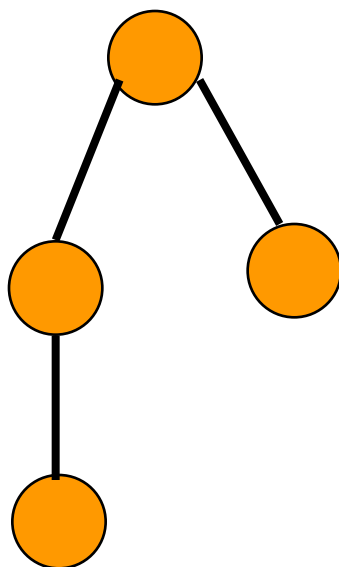
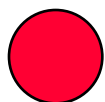
.

B_0

B , > 0 , :



E



B₀

B₁

B₂


B₃

N

O N

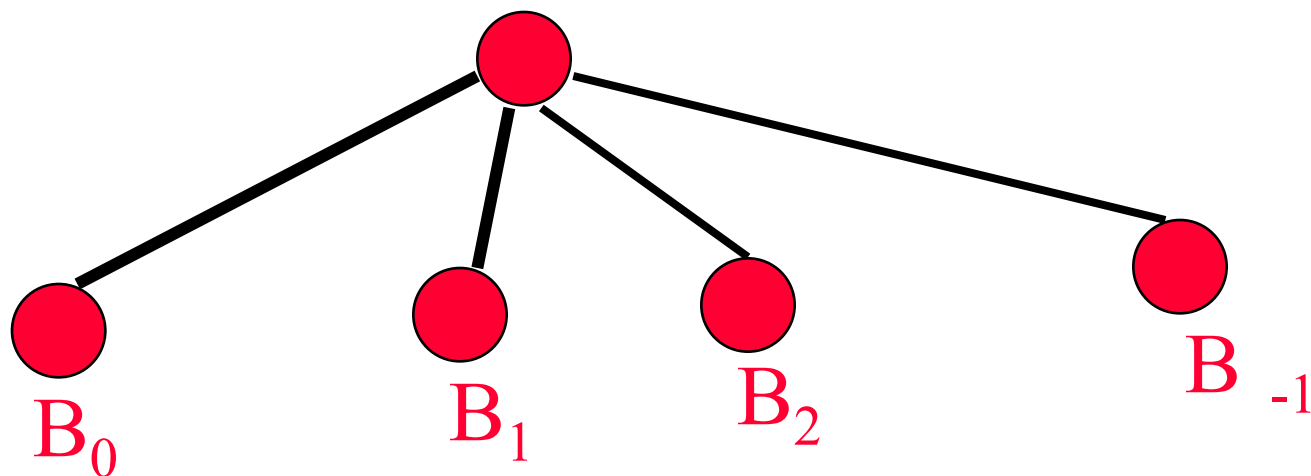
I B

$$N = B .$$

B_0 

$$N_0 = 1$$

$$B , > 0 , :$$



$$N = N_0 + N_1 + N_2 + \quad + N_{-1} + 1 \\ = 2 .$$

E

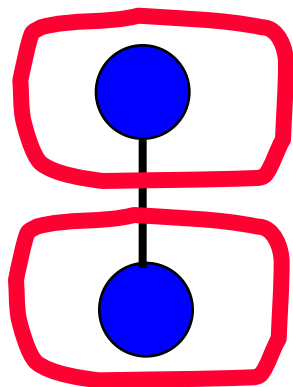
D

$B_1 > 0,$

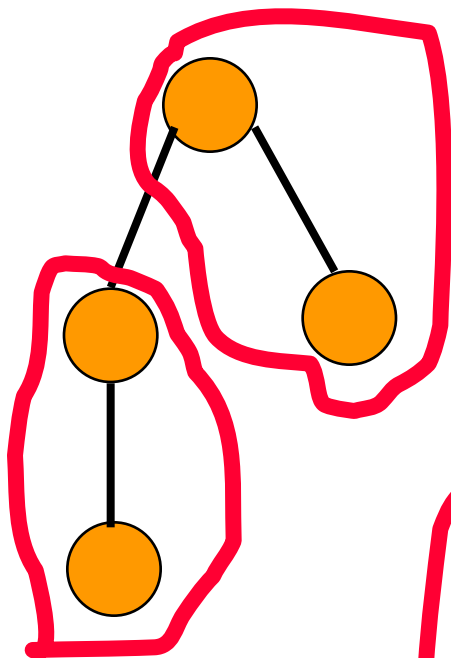
$B_{-1} < 0.$

O

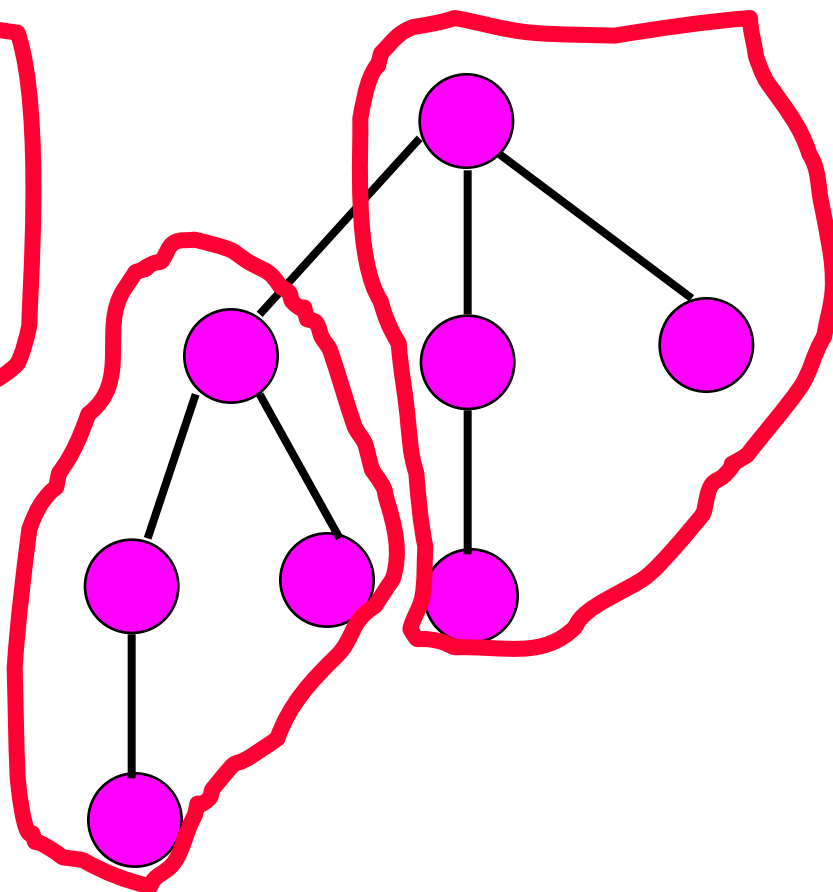
.



B₁



B₂



B₃

N A M D

$$N_0 = 1$$

$$N = 2N_{-1} \\ = 2.$$

I

,

.

$$S, M, D = O(\quad).$$