ASS 3

Z5141180

YIZHENG YING

Q1：

1)

C

C

C

C

C

C

C

C

C

C

C

C

Q2:

1. Rank(u0)=1/3

Rank(u1)=2/4

Rank(u2)=1/4

Rank(u3)=2/2

Rank(u4)=2/2

Rank(u5)=1/2

Rank(u6)=2/1

Rank(u7)=3/1

Rank(u8)=3/1

Hence, u0 is selected as the root node.NEC tree:

A

B

D

D

E

C

F

G

u'2

u'7

u'6

u'0

u'1

u'5

u'4

u'3

u'8

G

2)

u0

A

B

C

D

E

u2

u1

u5

u4

Core

u0

A

D

u3

Forest

u3

D

u2

u2

C

C

u8

G

u7

u6

G

F

Leaf

Q3:

|  |  |
| --- | --- |
|  |  |
| W(v0) | 1.2962 |
| W(v1) | 1.5979 |
| W(v2) | 1.7810 |
| W(v3) | 2.834 |
| W(v4) | 1.7790 |
| W(v5) | 1.3912 |
| W(v6) | 1.6042 |
| W(v7) | 1.6948 |
| W(v8) | 1.3597 |
| W(v9) | 1.8984 |

From the table above we can see that the maximize is 2.834, so we should choose v3 as the activated seed.