

PROLOGUE

; P.I.R.A.M

" ?"

" / !"

' P.I.R.A.M

" P.I.R.A.M !"

' 10

' 10

' P.I.R.A.M

' Daily ' P.I.R.A.M 10

' 3 10 Day1, Day2...

' P.I.R.A.M 10

10

' Daily

CONTENTS

	008p
1. ()	012p
2.	015p
	019p
-	191p

Day - 1

DAY 1 020p

: [] 2011.06 [32~ 35]	
[] 2011.09 [25~ 27]	
[] 2011.09 [48~ 50]	
: [+] 2019.06 [27~ 31]	
[] 2020.06 [16~ 18]	
[+] 2011.09 [13~ 18]	

DAY 2 032p

: [] 2012.11 [47~ 50]	
[] 2011.11 [37~ 39]	
[] 2020.06 [19~ 22]	
: [+] 2012.11 [31~ 36]	
[] 2011.09 [21~ 24]	

DAY 3 042p

: [] 2018.06 [16~ 21]	
[] 2011.11 [25~ 26]	
[] 2012.06 [16~ 18]	
: [+] 2019.09 [16~ 20]	
[] 2018.06 [26~ 29]	
[] 2011.11 [40~ 43]	

DAY 4 054p

: [+] 2011.06 [23~ 27]	
[] 2012.06 [47~ 50]	
[] 2012.11 [21~ 24]	
: [] 2018.11 [20~ 22]	
[+] 2012.06 [19~ 24]	
[] 2012.09 [43~ 46]	

DAY 5

066p

- : [] 2012.09 [28~ 30]
- [] 2017.11 [37~ 42]
- [] 2012.06 [33~ 36]
- : [+] 2011.06 [39~ 43]
- [] 2012.06 [37~ 39]
- [] 2012.11 [13~ 16]

DAY 6

078p

- : [] 2011.06 [36~ 38]
- [] 2012.11 [43~ 46]
- [] 2011.11 [32~ 36]
- : [+] 2012.09 [38~ 42]
- [] 2012.06 [25~ 28]

DAY 7

088p

- : [] 2012.06 [29~ 32]
- [] 2020.09 [27~ 31]
- [] 2011.09 [44~ 47]
- : [] 2017.09 [16~ 18]
- [] 2011.09 [35~ 38]

DAY 8

098p

- : [] 2011.06 [15~ 18]
- [] 2019.06 [16~ 21]
- [] 2012.11 [29~ 30]
- : [] 2017.09 [19~ 20]
- [] 2012.11 [37~ 39]
- [] 2012.11 [25~ 28]

DAY 9

108p

- : [] 2012.09 [21~ 23]
- [] 2011.09 [28~ 31] &
- [] 2019.11 [39~ 42]
- : [] 2017.06 [25~ 27]
- [] 2012.09 [13~ 16]

DAY 10

118p

- : [] 2011.11 [17~ 20]
- [] 2012.09 [35~ 37]
- [] 2018.11 [38~ 42]
- : [] 2020.09 [16~ 20]
- [] 2012.09 [31~ 34] 1,

DAY 11

128p

- : [] 2011.11 [44- 46]
- [] 2017.06 [16- 19]
- : [+] 2020.11 [21- 25]
- [] 2011.11 [13- 16]
- [] 2011.06 [47- 50]

DAY 12

138p

- : [] 2011.06 [44- 46] &
- [] 2011.06 [13- 14]
- [] 2020.11 [37- 42] (soft law)
- : [] 2011.06 [19- 22]
- [] 2011.11 [47- 50]

DAY 13

148p

- : [] 2017.09 [31- 34]
- [] 2012.11 [17- 20]
- [] 2012.06 [13- 15]
- : [+] 2019.11 [21- 26]
- [] 2018.09 [20- 22]

DAY 14

160p

- : [] 2012.09 [17- 20]
- [] 2012.09 [47- 50]
- [] 2011.09 [19- 20]
- : [+] 2018.09 [33- 37]
- [] 2011.09 [32- 34]

DAY 15

170p

- : [] 2011.11 [21- 24] &
- [] 2019.09 [29- 32] STM
- : [+] 2011.11 [27- 31]
- [] 2020.09 [32- 34]
- [] 2018.09 [23- 26]

DAY 16

180p

- : [] 2011.09 [39- 43] &
- [+] 2018.09 [27- 32] &
- : [] 2020.11 [43- 45]
- [] 2011.06 [28- 31]
- [] 2012.06 [40- 43]



1. ? " P.I.R.A.M

2 ? ?
Daily
Part 1 : 2011~ 2012 + 2017~ 2020
Part 2 : 2013~ 2014 + 2017~ 2020
Part 3 : 2015~ 2016 + 2017~ 2020

Day
Day 2~ 3 / 2~ 3 Day16 Day
Day 2~ 3 Day

3.

?

&

QnA , QnA QnA

!

: <https://cafe.naver.com/piramgukeo>

: <https://class.orbi.kr/teacher/176>

. 5

Day 40

?

!

?’

!

?’

!

P.I.R.A.M



1. ()
- 2.

1. ()

" P.I.R.A.M "

1)



2)

&

... ?

- /

!

-

what (what), (why), (how)

why

!

DAY 1

[1~ 4]

10P

- 2011.06 [32~ 35]

[Blank area for handwritten notes]

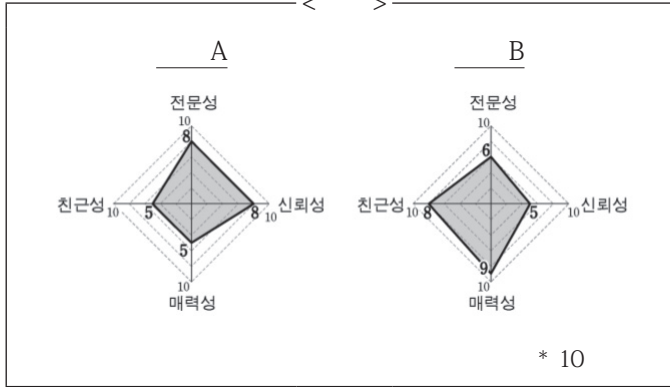
[Blank area for handwritten notes]

1.

?

2

< > _____ ?



A

A

B

A

B

B

A

3

?
[3]

4

?

* : .

20

[A]

?

12

*

18

3- 4

5.

?

	-

— — —

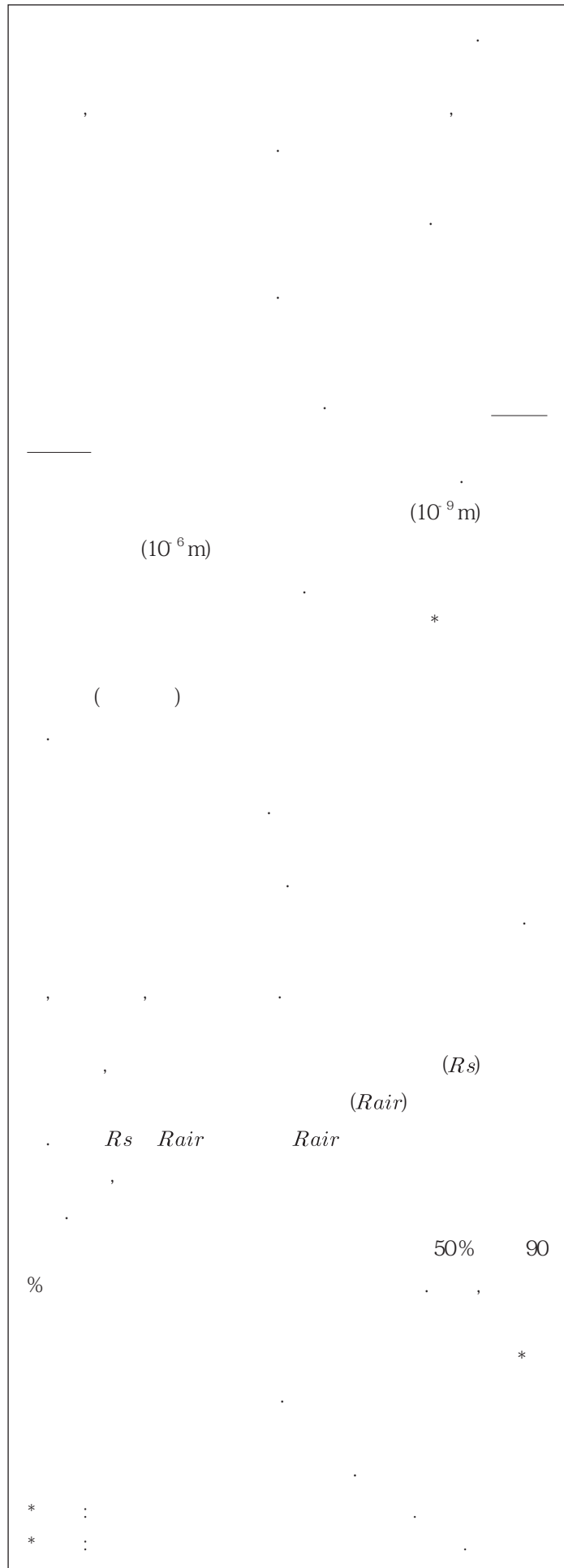
6.

— ?

()

7. [A]

— ?



50m

128 130

(10^6 m)

(10^9 m)

*

()

(*Rs*)

(*Rair*)

Rs *Rair* *Rair*

50% 90

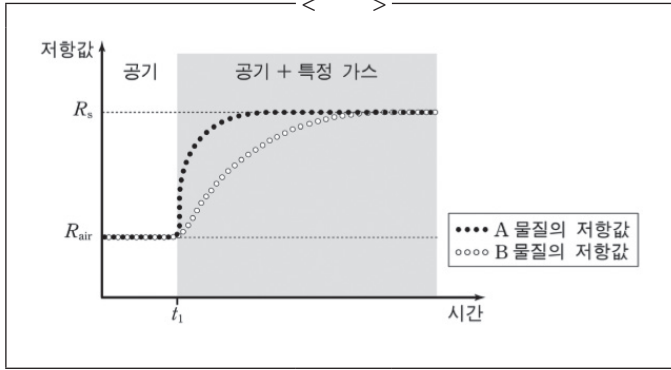
%

*

*

10.

A B
 < >
 _____ ? [3]



A B
 A B
 A B
 t₁ A
 B

[11~ 15]

17P

- 2019.06 [27~ 31]

()

()

()

「 [A] 」

「 [B] 」

「 [C] 」

「 [D] 」

」
」
[E]
」

()
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,
- , -

* :
* :

()

()

()

(),

()

2

()

11. ()~()

?

12 (), ()

___ ?

()

()

() , ()

() , ()

() ()

13. () () ?

() ' ,
 , () ' ,
 () ' , ()
 () ' , ()
 () ' ,
 () ' ,
 () ' ,
 () ' ,

14. < > [A]~ [E]

___ ?

< >

[A]:

[B]:

[C]:

[D]:

[E]:

15. < > ' ' ()

~ ___ ? [3]

< >

1:
 2:'
 3:'
 4:
 5:'

_____ ,
 . ! !"
 “ , ! , ? ,
 , !"
 .
 .
 - , -

16. [A] [B] _____ ?
 [A]
 [B]
 [A] , [B]
 [A]
 , [B]
 [A] , [B]

17. ~ ?
 :
 :
 :
 :
 :
 :

18. < >
 ? [3] _____

< >
 .
 , , ,
 ,
 .

()

?

()

*

*

*

:

*

:

()

()

()

<1 >

() ()*

()

<2 >

()

*

()

<3 >

()*

<4 >

()

<5 >

()

()

<6 >

*

:

*

:

*

:

19. () ~ ()

?

22. () ()

_____ ?

() , ()

() , ()

() ' , () ' ,

() ' , , () ' ,

() , ()

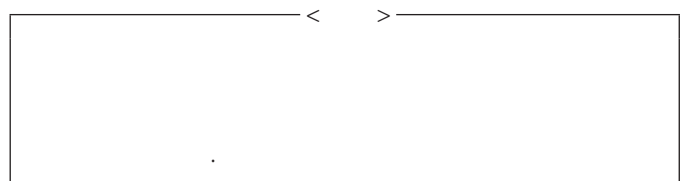
20. ()

?

.....
.....
.....
.....
.....

23. () ~ < >

?



21. ()

_____ ?

1 1 ' , ,

1 2 ~ 3 ' , , , ,

2 3 ' , , , ,

4 ' , , , ,

5 ' , , , ,

24. ()

()

?

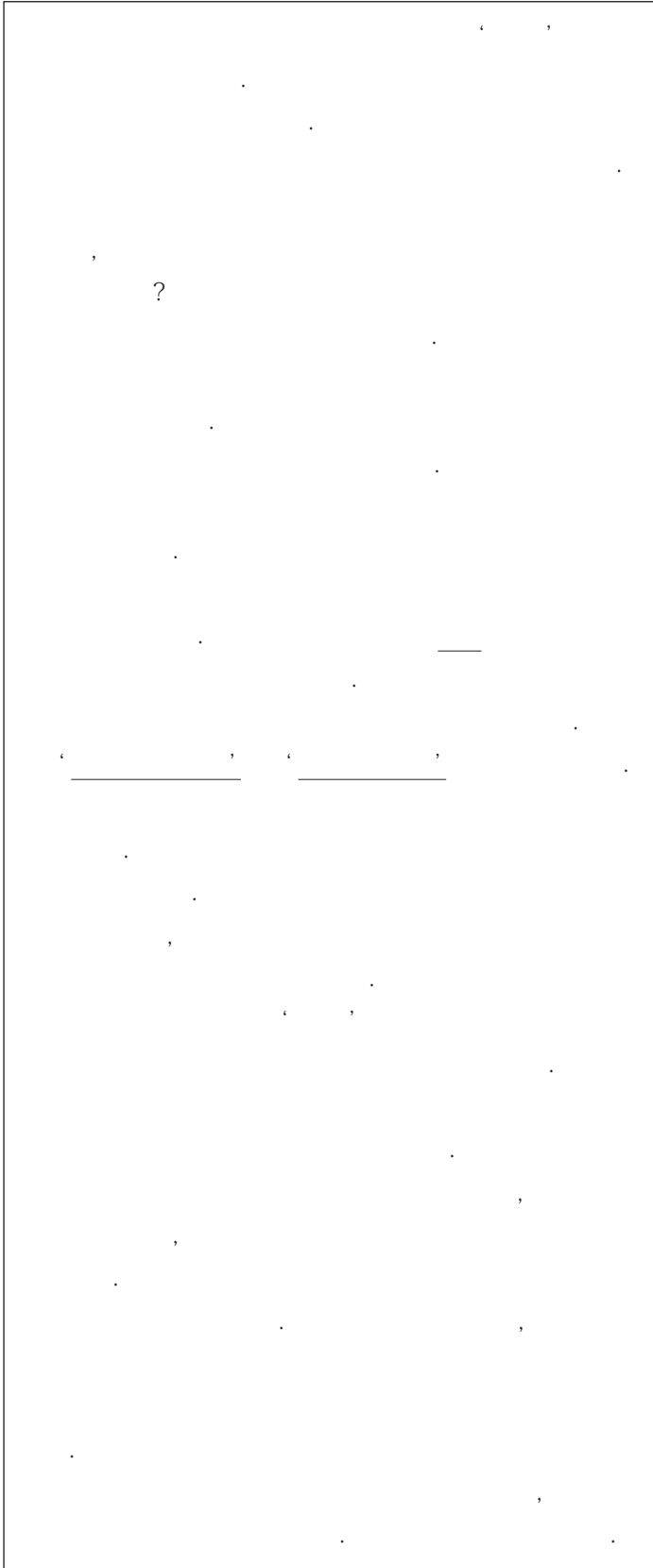
1 2 3 5 6

DAY 2

[1~ 4]

28P

- 2012.11 [47~ 50]



1.

_____ ?

2.

_____ ?

3.

< >

? [3]

	< >
$1.87 \times 10^{24} \text{ kg} \cdot \text{m/s}$	x
$9.35 \times 10^{27} \text{ kg} \cdot \text{m/s}$	x
$5.64 \times 10^9 \text{ m}$	

4.

10 ___ 200 20

?

7.

_____ ? , ~

[8- 11]

33P

- 2020.06 [19- 22]

8

?

()

()

-
- , ,
-
-
-

9

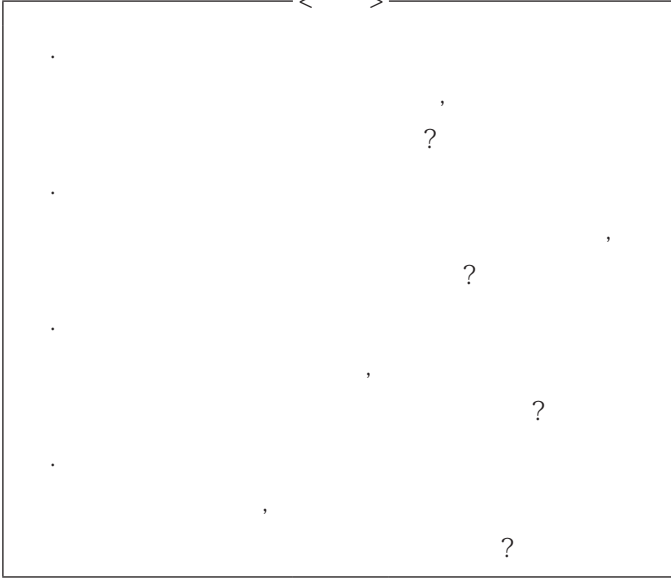
~

?

- , ,
- , ,
- , ,
- , ,
- , ,

10.

‘ ’ ,
< > ?



‘ ’ ,
< > ,

11.

‘ ’ < >
___ ? [3]



‘ ’ , < > ,
‘ ’ ,
> ‘ ’ , <
‘ ’ , < >
‘ ’ , ‘ ’ ,
< > , ‘ ’ ,
‘ ’ , < >
‘ ’ ,

()

- ┌ [A]
- └
- ┌ [B]
- └
- ┌ [C]
- └
- ┌ [D]
- └
- ┌ [E]
- └

()

<1>

<2>

<3>

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* : .

()

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()*

() *

()*

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()*

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()

()

- , () -

* : .

* : .

* : .

* : .

12. () ~ ()

?

13. () ()

?

() ()

() ()

() ()

() ()

() ()

14. () ()

?

(), ()

() ()

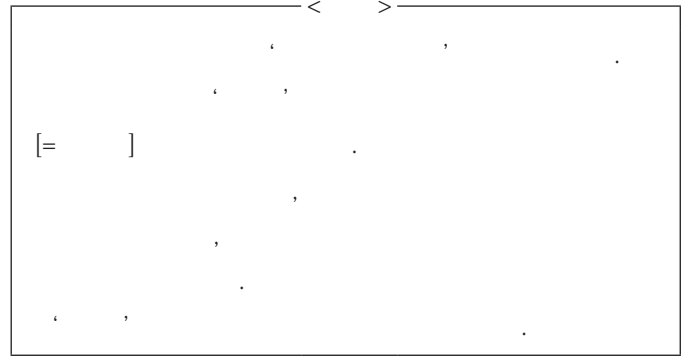
() ()

() ()

() ()

15. < > ' ' ()

? [3]



[A]:

[B]:

[C]:

[D]:

[E]:

16. ()

_____ ?

<1>, <2>, <3>

<1>, <2>, <3> 1

<1>, <2>, <3> 3

<1> <2> , <3>

<1> 2

<2> 2

17. () ~

?

, ,

, ,

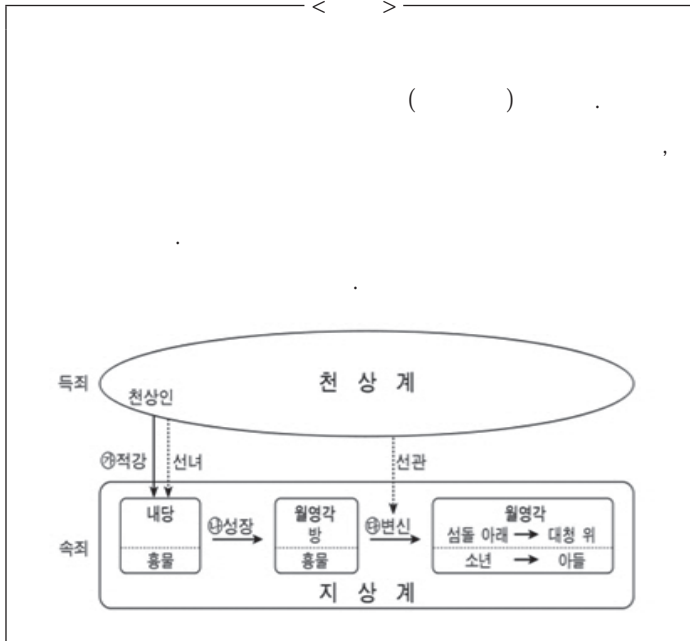
18

?

20 < >

? [3]

< > 19 20



21.

?

- ()
- ()
- ()
- ()
- ()

19. < >

_____ ?

1. _____ ?

이 단락을 읽고 밑줄 친 단어를 찾아서
그 뜻을 설명하십시오.

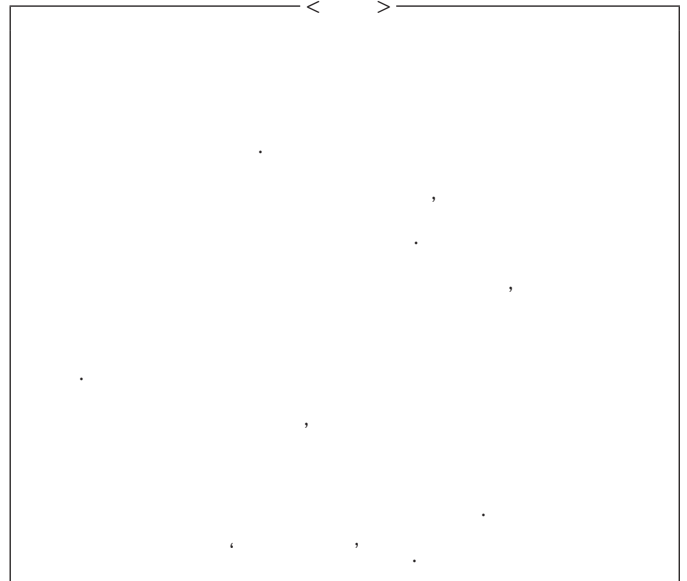
2. _____ ?

이 단락을 읽고 밑줄 친 단어를 찾아서
그 뜻을 설명하십시오.

3. _____ ?

이 단락을 읽고 밑줄 친 단어를 찾아서
그 뜻을 설명하십시오.

4. _____ < _____ > _____ ?



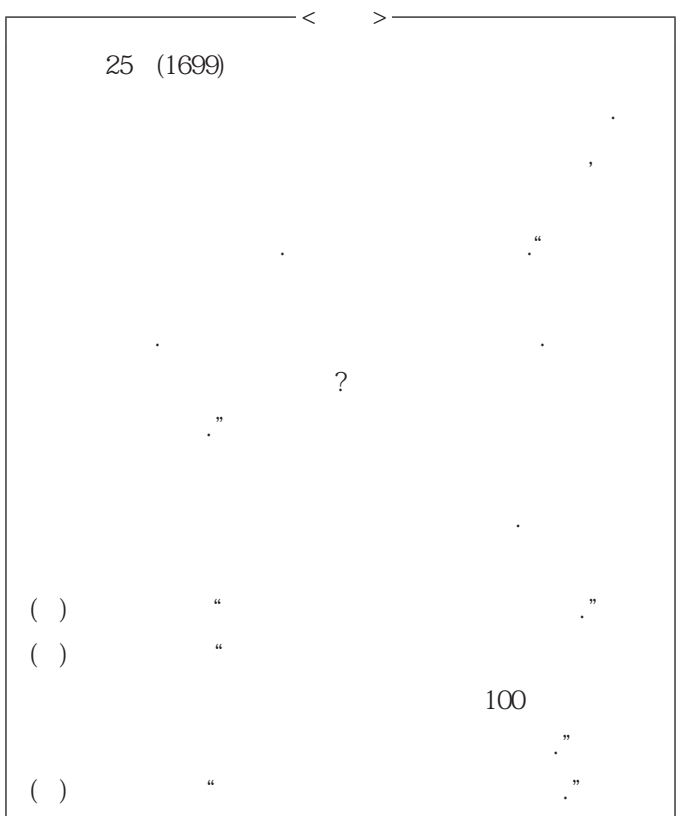
이 단락을 읽고 밑줄 친 단어를 찾아서
그 뜻을 설명하십시오.

5. _____ ?

이 단락을 읽고 밑줄 친 단어를 찾아서
그 뜻을 설명하십시오.

6.

< > ' ' ? [3]



() " "

() " "

() " "

()

200

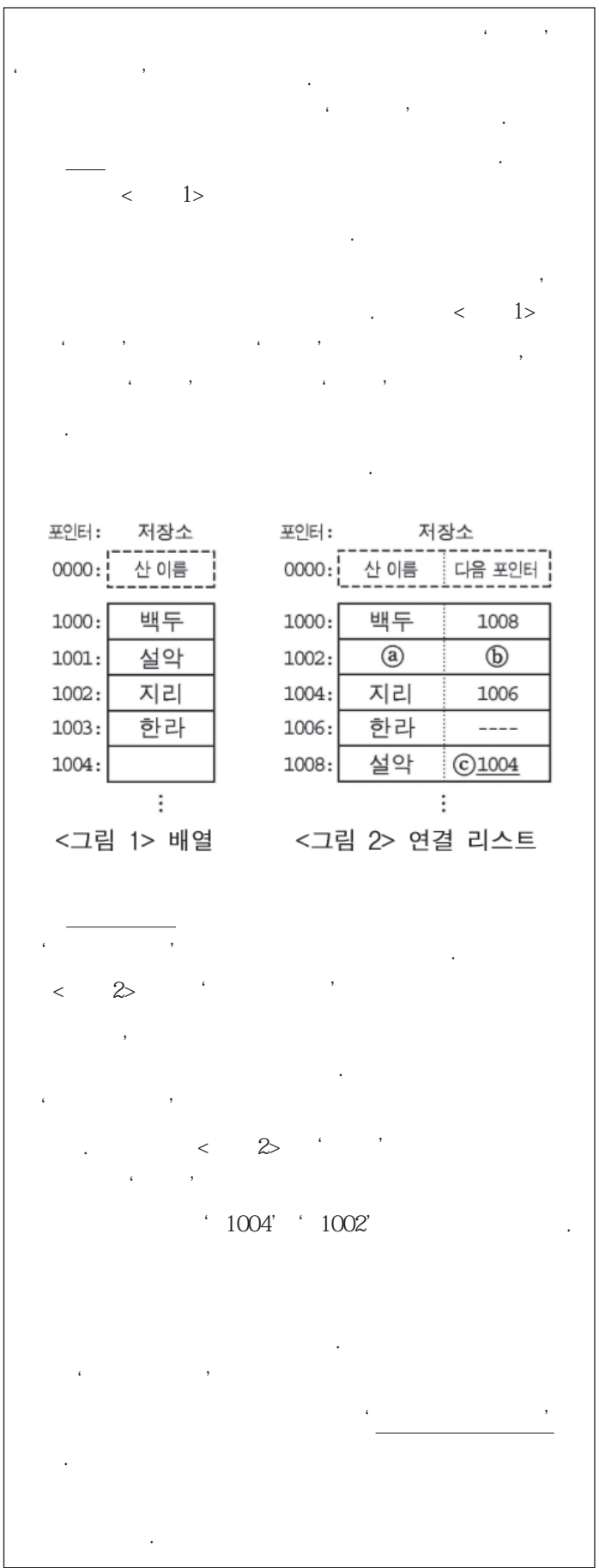
()

()

[7~ 8]

48P

- 2011.11 [25~ 26]



< 1>

< 1>

포인터	저장소
0000:	산 이름
1000:	백두
1001:	설악
1002:	지리
1003:	한라
1004:	

포인터	저장소	다음 포인터
0000:	산 이름	다음 포인터
1000:	백두	1008
1002:	ⓐ	ⓑ
1004:	지리	1006
1006:	한라	----
1008:	설악	©1004

<그림 1> 배열

<그림 2> 연결 리스트

< 2>

< 2>

' 1004' ' 1002'

7.

_____ ?

.
 .
 .
 .
 .

8.

< >

?

[3]

_____ < > _____
 . .
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 .
 .

3

9.

_____ ?

10.

_____ ?

11.

, < >

?

< >

, , ,
, , ,

()

() ()

()

()*

< 1 >

()* ()

()* ()*

< 2 >

() ()

()

()

< 4 >

() () () ()

()

() () ()

< 8 >

()*

() ()

()*

< 16 >

() ()

() ()* ()

()

< 17 >

- * :
- * :
- * :
- * :
- * :
- * :
- * :
- * :

()

()

() ()

()

3

4

(),

“ / / ” 3 , “ / / / ” 4

12 () () ?

13 () _____ ?

< 2 > ‘ ’ < 4 > ‘ ’

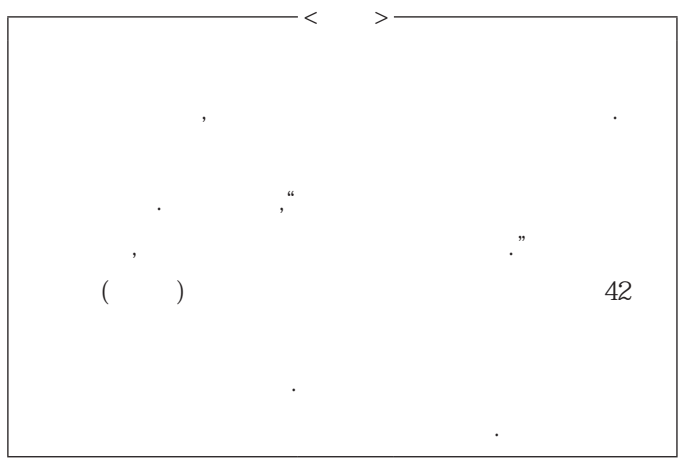
< 2 > ‘ ’ < 17 > ‘ ’

< 4 > ‘ ’ < 8 > ‘ ’

< 4 > ‘ ’ < 17 > ‘ ’

< 8 > ‘ ’ < 17 > ‘ ’

14 < > () _____ ? [3]



< 1 > ‘ ’

< 1 > ‘ ’

< 16 > ‘ ’

< 16 > ‘ ’

< 16 > ‘ ’

15 () _____ ?

‘ ’ ‘ ’

‘ ’ ‘ ’ ‘ ’ ‘ ’

‘ ’ ‘ ’ ‘ ’ ‘ ’

‘ ’ ‘ ’ ‘ ’ ‘ ’

‘ ’ ‘ ’ ‘ ’ ‘ ’

16 () () () ?

() 3

()

() ‘ ’ ‘ ’

() ‘ ’ ‘ ’ ‘ ’ ‘ ’

() 1 3

()

[A]

()

*

()

*

* () ()

_____ () ()
()

()

[B]

()

()

..... () -

* ():

* : ().

* : ' .

17. () () ~
?

18 [A] () _____ ? [3]

20 [B] () _____ ?

19 () _____ ?

.....

“ ”

“ ”

“ ”

“ ”

“ ”

“ ”

“ ”

“ ”

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“ ? ”

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“ ? ”

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“ ? ”

“ ? ”

“ ? ”

“ ” ? .”
 - , () -

21.

?

22.

~

—

?

23.

—

? [3]

24. < >

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< >

‘ ’

‘ ’ ‘ ’

‘ ’ ‘ ’ ‘ ’

* () !*

16

???

Part 3

Part 2 Part 3

10

Part 2

Part 3

Part 1