# Java

http://cafe.daum.net/pway

```
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```

# Chapter 1.

1

```
Java
```

```
BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
int a = Integer.parseInt(inputNum.readLine());
                                                                   .)
  throws Exception
  System.out.print()
                                                        )
                                             .(
  System.out.println()
                                            .(
                                                        .)
public static String format4(int targetNum){
   String strNum = new String(Integer.toString(targetNum));
   StringBuffer resultStr = new StringBuffer();
   for(int i = strNum.length(); i < 4; i++){
        resultStr.append('');
   return (resultStr.append(strNum)).toString();
}
                                                                                    . (
         .)
1.1
1.
```

```
import java.io.*;
public class JavaStart{
   public static void main(String args[]){
       System.out.println("This is my first Program");
}
2.
import java.io.*;
public class JavaStart{
   public static void main(String args[]){
       System.out.println("----");
       System.out.println("This is my first Program");
System.out.println("-----");
   }
import java.io.*;
public class JavaStart{
   public static void main(String args[]){
       System.out.print('\n');
System.out.print("----\n");
       System.out.print("This is my first Program\n");
       System.out.print("-----\n");
   }
}
```

System.out.println() System.out.print()

가 .

• '\n' .

#### 1.2

1.

```
Chapter 1.
```

1

```
import java.io.*;
public class JavaStart{
   public static void main(String args[]){
       int a, b, c;
       a = 1;
       b = 2;
       c = a + b;
       System.out.println("a = "+ a + ", b = " + b + ", c = " + c);
   }
}
                a, b, c 가
1.
         가
2.
                               . (
                                           가
4.
5.
                   가
1.3
1.
import java.io.*;
public class JavaStart{
   public static void main(String args[])throws Exception{
       int a, b, c;
       System.out.print("please enter first number(a): ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       a = Integer.parseInt(inputNum.readLine());
       System.out.print("please enter second number(b): ");
       inputNum = new BufferedReader(new InputStreamReader(System.in));
       b = Integer.parseInt(inputNum.readLine());
       c = a + b;
       {\tt System.out.print('\n');}
       System.out.println("a = "+ a + ", b = " + b + ", c = " + c);
   }
}
      System.out.println() System.out.print()
                 BufferedReader inputNum
BufferedReader inputNum
Integer.parseInt(inputNum.readLine())
                                                                 가
                                                               가
       main
                    throws Exception
1.4
import java.io.*;
public class JavaStart{
   public static void main(String args[])throws Exception{
```

int n;

```
System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       for(int i =0; i<n; i++) {
          System.out.print("yes");
          System.out.println("i=" + i + ": print " + n +" many yes ");
   }
}
                       . for
2.
import java.io.*;
public class JavaStart{
   public static void main(String args[])throws Exception{
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       {\tt System.out.print('\n');}
       for(int i =0; i<n; i++) {
          System.out.println("i=" + i + ": print the numbers from 0 to " + (n-1));
   }
}
1.4.1 for
                         1
                                               for
              가
for
       "yes "
10
100
        "happy "
        "laugh "
1000
                         가 for
for(int i=0;i<10;i++)
   System.out.println("yes ");
for(int i=0;i<100;i++)</pre>
   System.out.println("happy ");
for(int i=0;i<1000;i++)
   System.out.println("laugh ");
1.4.2 for
              가
                                                              가
for
for(int i=0;i<n;i++)</pre>
   System.out.println("yes ");
                      "yes "
                                 가
n
for
                    가
    n
    for
   1. i=0;
   2. i<n; 0<3
                가
   System.out.println("yes ");
   4. i++ i 가 1 가
                       i=1
   5. i<n; 1<3
                가
```

```
Chapter 1. 1
```

```
6. System.out.println("yes ");
   7. i++ i 가 1 가 i=2 가
   8. i<n; 2<3 가
   9. System.out.println("yes ");
   10. i++ i 가 1 가 i=3
   11. i<n; 3<3 가
   12. for
1.4.3 for
        for
for(int i=0;i<n;i++)</pre>
   System.out.println("yes ");
                        가 .
for
                         가)
for(
        ; ;
      i=0
           for
                                                                          가
      i<n
                              가->)
                                                                        for
      System.out.println("yes ")
                                                i++
                                                            가
for
1.4.4 for
         for
for(int i=0;i<n;i++)</pre>
    System.out.println( i );
        3
                가
    for
   1. i=0;
   2. i<n; 0<3 가
   System.out.println(i);
       0
   4. i++ i 가 1 가
5. i<n; 1<3 가
   6. System.out.println(i);
   7. i++ i 가 1 가
                        i=2 가
   8. i<n; 2<3 가
   9. System.out.println(i);
   10. i++ i 가 1 가
                        i=3
   11. i<n; 3<3
   12. for
for
                С
                          formatting
                                                        printf("%4d", x);
                                                                           Х
```

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Chapter 1. 1

•

# Chapter 2.

2

```
2.1
```

```
import java.io.*;
public class JavaStart{
   public static void main(String args[])throws Exception{
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n'); for(int i =0; i<n; i++){
           System.out.print( (i+1) );
    }
import java.io.*;
public class JavaStart{
       public static String format4(int targetNum) {
       String strNum = new String(Integer.toString(targetNum));
StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){}
           resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
    }
   public static void main(String args[])throws Exception{
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       for(int i = 0; i < n; i++){}
           System.out.print(format4(i+1));
    }
}
       format4()
                                                     4
                                                    .)
                              .(
       format4()
       program
System.out.print((i+1));
System.out.println((i+1));
import java.io.*;
public class JavaStart{
       public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++)
           resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
    }
```

```
public static void main(String args[])throws Exception{
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       for(int i =0; i<n; i++) {
    for(int j =0; j<n; j++) {
              System.out.print(format4(j+1));
           System.out.print('\n');
   }
}
          가
2.1.1 for
                          5
1:import java.io.*;
3:public class JavaStart{
4:
5:
      public static String format4(int targetNum){
6:
          String strNum = new String(Integer.toString(targetNum));
7:
          StringBuffer resultStr = new StringBuffer();
8:
          for(int i = strNum.length(); i < 4; i++)\{
             resultStr.append(' ');
9:
10:
11:
          return (resultStr.append(strNum)).toString();
12:
      public static void main(String args[])throws Exception{
  int n;
13:
14:
15:
          System.out.print("please enter number : ");
16:
          BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
17:
          n = Integer.parseInt(inputNum.readLine());
18:
          System.out.print('\n');
19:
          for(int i =0; i<n; i++) {
    for(int j =0; j<n; j++) {</pre>
20:
21:
                  System.out.print(format4(j+1));
22:
23:
24:
              System.out.print('\n');
25:
26:
       }
27:}
                                                 가
   : for
   : 20
            for(int i=0;i< n;i++)
                                        20
                                                  25
                                                    가 ?
   : 4
                      (
                               )
                           가
                                            ?
   :
                for
                                                                                       가
                                                                                가
    for
                           for
                                                  가 ?
2.1.2 for
```

6

```
1:import java.io.*;
3:public class JavaStart{
5:
      public static String format4(int targetNum){
6:
         String strNum = new String(Integer.toString(targetNum));
         StringBuffer resultStr = new StringBuffer();
7:
8:
         for(int i = strNum.length(); i < 4; i++){
9:
            resultStr.append('
10:
         return (resultStr.append(strNum)).toString();
11:
12:
13:
      public static void main(String args[])throws Exception{
14:
         int n;
15:
         System.out.print("please enter number : ");
         BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
16:
17:
         n = Integer.parseInt(inputNum.readLine());
18:
         System.out.print('\n');
19:
         for(int i =0; i<n; i++){
20:
             for(int j = 0; j < n; j + +) {
21:
                System.out.print(format4(j+1));
22:
23:
24:
             System.out.print('\n');
25:
26:
      }
27:}
                                                            가
                                                 n 3
20
      for
         : i=0 i
                 0
           : i<3
         : 21
               - 25
       21
              for
                : j=0 j
                 : j<3
                : System.out.print( format4(j+1) ); 1
                가: j++ j 1
                 : j<3
                : System.out.print( format4(j+1) ); 2
                가: j++ j 2 가
                 : j<3
                : System.out.print( format4(j+1) ); 3
                가: j++ j 3
                  j<3
      for (21
                  )
       24
          {\tt System.out.print('\n');}
         (21 - 25)
        가: i++ i 1
          : i<3
                - 25
        : 21
       2.1
              for
                : j=0 j
                 : j<3
                : System.out.print( format4(j+1) ); 1
                가: j++ j 1
                 : j<3
                : System.out.print( format4(j+1) ); 2
                가: j++ j 2 가
                 : j<3
                : System.out.print( format4(j+1) ); 3
                가: j++ j
                  j<3
```

```
for (21 )
       24
          System.out.print('\n');
         (21 -25 )
         가: i++ i 2가
          : i<3
        : 21
                - 25
       21
             for
               : j=0 j
                 : j<3
                : System.out.print( format4(j+1) ); 1
               가: j++ j
                 : j<3
                : System.out.print( format4(j+1) ); 2
               가: j++ j 2가
                 : j<3
                : System.out.print( format4(j+1) ); 3
               가: j++ j 3
                  j<3
      for (21
                  )
       24
          System.out.print('\n');
         (21 -25 )
         가: i++ i 3
          : i<3
for (20
          )
123
123
123
2.2
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum) {
      String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
         resultStr.append('');
      return (resultStr.append(strNum)).toString();
   public static void main(String args[])throws Exception{
      int n;
       System.out.print("please enter number : ");
      BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
      n = Integer.parseInt(inputNum.readLine());
      System.out.print('\n'); for(int i =0; i<n; i++){
          for(int j = 0; j < n; j + +){
             System.out.print(format4(j+1));
         System.out.print('\n');
   }
```

Chapter 2. 2

```
2. 22
         System.out.print( format4(j+1) );
                                          System.out.print( format4(i+1) );
3. 22
           System.out.print(format4(i+j+1));
4. 22
           System.out.print(format4((i+1)*(j+1)));
                                                for
                                                                      가
2.3
1.
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum) {
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
          resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int n, k;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       k = 1;
       for(int i =0; i<n; i++){
          for(int j =0; j<n; j++){
    System.out.print( format4(k++) );</pre>
           System.out.print('\n');
   }
}
                                         가?
          for
2.4
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
          resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n'); for(int i =0; i<n; i++){
```

for(int j = 0; j < i+1; j++){

```
System.out.print( format4(j+1) );
          {\tt System.out.print('\n');}
   }
}
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum) {
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
          resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
      n = Integer.parseInt(inputNum.readLine());
      System.out.print('\n');
       for(int i =0; i<n; i++){
          for(int j = 0; j < n-i; j++)
             System.out.print(format4(j+1));
          System.out.print('\n');
   }
}
2.4.1 for
                         7
 1:import java.io.*;
 3:public class JavaStart{
 4:
 5:
      public static String format4(int targetNum){
 6:
              String strNum = new String(Integer.toString(targetNum));
 7:
              StringBuffer resultStr = new StringBuffer();
 8:
              for(int i = strNum.length(); i < 4; i++){}
 9:
                 resultStr.append('
10:
11:
                 return (resultStr.append(strNum)).toString();
12:
13:
14:
             public static void main(String args[])throws Exception{
15:
              int n, k;
              System.out.print("please enter number : ");
16:
              BufferedReader inputNum = new BufferedReader(new
17:
                  InputStreamReader(System.in));
18:
              n = Integer.parseInt(inputNum.readLine());
19:
20:
              System.out.print('\n');
21:
              k = 1;
              for(int i =0; i<n; i++){
22:
                  for(int j = 0; j < n; j + +)
23:
24:
                     System.out.print(format4(k++));
25:
26:
                  System.out.print('\n');
27:
28:
29:}
                                                              가
                                                  n
                                                       3
```

```
21
        k=1; k 1
22
     for
       : i=0 i 0
        : i<3
       : 23
              - 27
           for
      23
             : j=0 j
                      0
               : j<3
              : System.out.print(format4(k++)); 1
                                                    k 2가
             가: j++ j 1
              : j<3
             : System.out.print(format4(k++)); 2
                                                         3
             가: j++ j 2 가
              : j<3
                                                    k 4가
              : System.out.print(format4(k++)); 3
             가: j++ j 3
               j<3
      for (23 )
      26
        System.out.print('\n');
        (23 -27 )
       가: i++ i 1
        : i<3
            - 27
       : 23
      23
           for
             : j=0 j
              : j<3
             : System.out.print(format4(k++)); 4 k 5가
             가: j++ j 1
              : j<3
              : System.out.print(format4(k++)); 5
                                                    k 6
             가: j++ j 2 가
               : j<3
              : System.out.print(format4(k++)); 6
             가: j++ j 3
               j<3
      for (23 )
      26
        System.out.print('\n');
       (23 –27 )
       가: i++ i 2가
        : i<3
       : 23
            - 27
      23
           for
             : j=0 j 0
               : j<3
              : System.out.print(format4(k++)); 7
                                             k 8
             가: j++ j 1
              : j<3
              : System.out.print(format4(k++)); 8
                                                        9 가
             가: j++ j 2가
              : j<3
              : System.out.print(format4(k++)); 9
                                                    k 10
             가: j++ j 3
               j<3
      for (23
      26
         System.out.print('\n');
```

```
(23 -27
           가: i++ i
                         3
             : i<3
for (22
             )
123
456
789
2.4.2 for
                             8
 1:import java.io.*;
 3:public class JavaStart{
 4:
 5:
       public static String format4(int targetNum) {
           String strNum = new String(Integer.toString(targetNum));
StringBuffer resultStr = new StringBuffer();
for(int i = strNum.length(); i < 4; i++){
 6:
 7:
 8:
 9:
               resultStr.append(' ');
10:
11:
           return (resultStr.append(strNum)).toString();
12:
13:
14:
           public static void main(String args[])throws Exception{
15:
                int n;
                System.out.print("please enter number : ");
16:
17:
                BufferedReader inputNum = new BufferedReader(new
                    InputStreamReader(System.in));
18:
                n = Integer.parseInt(inputNum.readLine());
19:
20:
                System.out.print('\n');
                for(int i =0; i<n; i++){
    for(int j =0; j<i+1; j++){
21:
22:
                       System.out.print(format4(j+1));
23:
24:
25:
                 {\tt System.out.print('\n');}
26:
27:
        }
28:}
             21
                          for
                               가
                                                                   i
  j<n
                                         j<i+1
    가
                       for
                                                                                 . i+1
                                                                         가 n
                                  i
                                           0, 1, 2, 3, . . . , n-1
                                                                                     for
         for
                                        가
       i+1
             1, 2, 3, ..., n
                                                     가
               , . . . , \boldsymbol{n}
n=3
1
12
123
2.4.3 for
 1:import java.io.*;
 3:public class JavaStart{
 4:
```

Chapter 2.

2

```
5:
       public static String format4(int targetNum){
 6:
            String strNum = new String(Integer.toString(targetNum));
           StringBuffer resultStr = new StringBuffer(); for(int i = strNum.length(); i < 4; i++){
 7:
 8:
 9:
                resultStr.append(' ');
10:
11:
            return (resultStr.append(strNum)).toString();
12:
       }
13:
       public static void main(String args[])throws Exception{
14:
15:
16:
            System.out.print("please enter number : ");
17:
            BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
18:
            n = Integer.parseInt(inputNum.readLine());
19:
            System.out.print('\n');
for(int i =0; i<n; i++){
   for(int j =0; j<n-i; j++){
       System.out.print(format4(j+1));
}</pre>
20:
21:
22:
23:
24:
25:
                System.out.print('\n');
26:
27:
        }
28:}
n-i n, n-1, n-2, \dots, 3, 2, 1
                                              가
n \ , n-1 \ , n-2 \ , \dots, 3 \ , 2 \ 1
n=3
123
12
1
```

가 .

Chapter 3.

Chapter 3. for 가 가 가 가 가

가

# Chapter 4.

## Chapter 4.

1-8) number = 5

 1
 2
 3
 4
 5

 2
 3
 4
 5
 6

 3
 4
 5
 6
 7

 4
 5
 6
 7
 8

 5
 6
 7
 8
 9

1-9) number = 5

1 2 3 4 5 2 3 4 5 1 3 4 5 1 2 4 5 1 2 3 5 1 2 3 4

1-10) number = 5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

# Chapter 5.

```
for System.out.print
 2)
2-1) number = 5
      ****
      ****
       ****
       ****
2-2) number = 5
      ****
      ****
2-3) number = 5
           ***
          ****
          ****
2-4) number = 5
           ***
           ****
          *****
          *****
2-5) number = 5
```

#### Chapter 5.

2-6) number = 5 2-7) number = 5 [ n , 2-8 ] \*\*\*\*\*\*\*\*\* 2-8) number = 5 [ 2\*n ] \*\*\*\*\*\* \*\*\*\*\*\*\*\*\* \*\*\*\*\*\* 2-9) number = 5 \$\$\$\$\$\$\$ \$\*\*\*\***\$** \$\*\*\*\*\$ \$\*\*\*\*\$ \$\*\*\*\*\$ \$\$\$\$\$\$\$

## Chapter 5.

```
Chapter 6. 가
```

```
가
                                        가
                                                                             가
for
       System.out.print()
                                                 가
                                                             가
for
       2
                                가
                           가
2
                                      2
                                                            . 2
                                                                          1
      for
      2 가
            가
                       가
                      가
                           가
                                                                                15
                                                       6
                                           1408
                                                                       . 14
                                                                                     8
    가
                 101
                       [14][8]
                 101
                       101
                 101
                       [1][1]
                                        101
                 101
                       [1][1]
                                                   data
       data[1][1]
```

#### 6.1

```
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum){
        String strNum = new String(Integer.toString(targetNum));
        StringBuffer resultStr = new StringBuffer();
        for(int i = strNum.length(); i < 4; i++){
    resultStr.append(' ');</pre>
        return (resultStr.append(strNum)).toString();
    }
    public static void main(String args[])throws Exception{
        int[][] a = new int[30][30];
        int n, k;
        System.out.print("please enter number : ");
        BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
        n = Integer.parseInt(inputNum.readLine());
        k=0;
        System.out.print('\n');
        for(int i =0; i<n; i++) {
    for(int j =0; j<n; j++) {
        a[i][j] = k++;
    }
        for(int i =0; i<n; i++){
  for(int j =0; j<n; j++){
    System.out.print(format4(a[i][j]));
}</pre>
            System.out.print('\n');
```

가

```
}
    }
6.1.1
                            1
                            가
                                                         가
    1.
    2.
                                                           가
    3.
                                            . (
    4.
    5.
                                         가
2
                                                   2가 가
java
                                      0
10
                                 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
           가
       10
                                                                                                    . for
              가
                                                 가
          for
          0
                                                    가
                           1, 2, 3, ,,,
         int[][] a = new int[30][30];
                   а
                                                   가
а
                                                 가
а
             가
          int a[][] = new int[30][30];
int a[] = \{1, 2, 3, 4, 5, 6\};
int a[][] = \{\{1, 2, 3, 4, 5, 6\}, \{7, 8, 9, 10, 11, 12\}\};
   1)
   3)
    3)
2)
  , new
а
     int[][] a
                                 )
                                                     , new int[30][30]
                                                                                       30
30
             900
         30
                     30
а
         a[\ 0][\ 0],\ a[\ 0][\ 1],\ a[\ 0][\ 2],\ a[\ 0][\ 3],\ ,,,\ a[\ 0][28],\ a[\ 0][29],
         a[1][0], a[1][1], a[1][2], a[1][3], ,,, a[1][28], a[1][29],
         a[2][0], a[2][1], a[2][2], a[2][3], ,,, a[2][28], a[2][29],
         a[29][0], a[29][1], a[29][2], a[29][3], ,,, a[29][28], a[29][29]
                                                                                   가
                                       i j
```

가

6.1.2

```
1:import java.io.*;
 3:public class JavaStart{
           public static String format4(int targetNum) {
 4:
 5:
               String strNum = new String(Integer.toString(targetNum));
 6:
               StringBuffer resultStr = new StringBuffer();
 7:
               for(int i = strNum.length(); i < 4; i++){
 8:
                  resultStr.append(' ');
 9:
10:
               return (resultStr.append(strNum)).toString();
11:
           }
12:
13:
           public static void main(String args[])throws Exception{
14:
               int[][] a = new int[30][30];
15:
               int n, k;
16:
               System.out.print("please enter number : ");
17:
               BufferedReader inputNum = new BufferedReader(new
                   InputStreamReader(System.in));
18:
               n = Integer.parseInt(inputNum.readLine());
19:
20:
               k=0;
               System.out.print('\n');
21:
               for(int i =0; i<n; i++){
   for(int j =0; j<n; j++){</pre>
22:
23:
24:
                      a[i][j] = k++;
25:
26:
               for(int i =0; i<n; i++){
27:
28:
                  for(int j = 0; j < n; j + +)
29:
                      System.out.print(format4(a[i][j]));
30:
31:
                  System.out.print('\n');
32:
               }
           }
33:
34:}
22
           26
                       for
                                                           n
                                                                                           가
      1
            가
                   가
27
           32
                       for
                   2
```

## 6.2

```
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++)\{
          resultStr.append(' ');
      return (resultStr.append(strNum)).toString();
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n;
       System.out.print("please enter number : ");
      BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
      n = Integer.parseInt(inputNum.readLine());
      System.out.print('\n');
      for(int i =0; i<n; i++){
```

```
for(int i =0; i<n; i++){
   for(int j =0; j<n; j++){</pre>
              System.out.print(format4(a[i][j]));
           System.out.print('\n');
   }
}
        가
2.
                   // [A]
가: a[i][j] = i+1;
 : a[i][j] = i+j+1;
  : a[i][j] = i-j;
 : a[i][j] = j-i;
 : a[i][j] = (i+1)*(j+1);
        가
6.3
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
           resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n'); for(int i =0; i<n; i++){
           a[i][i] = i+1;
       for(int i =0; i<n; i++){
           for(int j =0; j<n; j++){
    System.out.print(format4(a[i][j]));</pre>
           System.out.print('\n');
    }
}
                   // [A]
가: a[i][i]=n-i;
 : a[0][i]=i+1;
  : a[n-1][i]=i+1;
 : a[i][0]=i+i;
  : a[i][n-1]=i+1;
  : a[i][n-i-1]=i+1;
        가
```

가

#### 6.4

```
1.
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum) {
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
      for(int i = strNum.length(); i < 4; i++){
          resultStr.append(' ');
      return (resultStr.append(strNum)).toString();
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n, k;
       System.out.print("please enter number : ");
      BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
      n = Integer.parseInt(inputNum.readLine());
      System.out.print('\n');
       for(int i =0; i<n; i++){
          a[i][i] = k++;
       for(int i =0; i<n; i++){
          for(int j =0; j<n; j++){
    System.out.print(format4(a[i][j]));</pre>
          System.out.print('\n');
}
                 // [A]
가: a[0][i]=k++;
 : a[n-1][i]=k++;
 : a[i][0]=k++;
 : a[i][n-1]=k++;
 : a[i][n-i-1]=k++;
 : a[n-i-1][i]=k++;
       가
6.5
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
      String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++)\{
          resultStr.append(' ');
      return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n, k;
       System.out.print("please enter number : ");
      BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
      n = Integer.parseInt(inputNum.readLine());
      System.out.print('\n');
```

```
k=0;
       for(int i =0; i<n; i++){
          for(int j =0; j<n; j++){
    a[i][j] = k++; //[A]
       for(int i =0; i<n; i++){
          for(int j =0; j<n; j++){
    System.out.print(format4(a[i][j]));</pre>
          System.out.print('\n');
   }
}
2.
                  // [A]
가: a[j][i]=k++;
 : a[i][n-j-1]=k++;
 : a[n-i-][j]=k++;
 : a[n-i-1][n-j-1]=k++i
 : a[j][n-i-1]=k++;
 : a[n-j-1][i]=k++;
        가
6.6
import java.io.*;
public class JavaStart{
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       for(int i=0; i< n; i++){
          if((i%2)==0){
              System.out.println("i = "+ i+" is even number");//
          }else{
              System.out.println("i = "+ i+" is odd number");//
   }
}
                            if
2
                    if
                                    가
    if
6.7
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
          resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
```

```
public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       int n;
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
for(int i =0; i<n; i++){
   for(int j =0; j<n; j++){</pre>
               if(i==j){
                  a[i][j] = 9;
               }else{
                   a[i][j] = 1;
       for(int i =0; i<n; i++) {
    for(int j =0; j<n; j++) {</pre>
               System.out.print(format4(a[i][j]));
           System.out.print('\n');
   }
}
               number=5:
       91111
       19111
       11911
       11191
       11119
가
           a[0][0], a[1][1], a[2][2], a[3][3], a[4][4]
                                                        9 가
                                                                                   1
                                                                                               가
2.
import java.io.*;
public class JavaStart{
   public static String format4(int targetNum){
       String strNum = new String(Integer.toString(targetNum));
       StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
           resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
       int[][] a = new int[30][30];
       System.out.print("please enter number : ");
       BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
       for(int i =0; i<n; i++){
    for(int j =0; j<n; j++){
               if(i>j){}
                  a[i][j] = 9;
               }else{
                   a[i][j] = 1;
       for(int i =0; i<n; i++){
           for(int j =0; j<n; j++){
    System.out.print(format4(a[i][j]));</pre>
           System.out.print('\n');
       }
```

Chapter 6. 가

```
}
}
                     number=5:
          11111
          91111
          99111
          99911
          99991
                        if(i>j)
                                    if(i<j)
                                                                                                   . \qquad \mathsf{if}(\mathsf{i}{>}\mathsf{=}\mathsf{j}) \qquad \qquad \mathsf{,} \ \mathsf{if}(\mathsf{i}{<}\mathsf{=}\mathsf{j})
                                          가
if((i\%2)==0)
%
                             . i%2
i가
                          가 0
                                                                가 1
                                         ,
i 가
         if((i\%2)==0)
                                                  if((i%2)==0)
                                if(i==j)
                                                           가
```

- 1

가 .

Chapter 7. (2)

# Chapter 7.

(2)

3) 2

3-1) 1 가

number = 5

1 2 3 4 5 9 10 6 7 8 11 12 14 15 13 19 16 17 18 20 21 22 23 24 25

3-2) 1 가

number = 5

 1
 6
 11
 16
 21

 2
 7
 12
 17
 22

 3
 8
 13
 18
 23

 4
 9
 14
 19
 24

 5
 10
 15
 20
 25

3-3) 1 가

number = 5

 21
 22
 23
 24
 25

 16
 17
 18
 19
 20

 11
 12
 13
 14
 15

 6
 7
 8
 9
 10

 1
 2
 3
 4
 5

3-4) 1 가

i

number = 5

 1
 2
 3
 4
 5

 10
 9
 8
 7
 6

 11
 12
 13
 14
 15

 20
 19
 18
 17
 16

 21
 22
 23
 24
 25

Chapter 7. (2 )

number = 5

1 0 1 0 1
0 1 0 1
0 1 0 1
0 1 0 1
0 1 0 1
0 1 0 1
1 0 1 0
1 0 1

3-7) 3-6

3-8) 3-6

number = 6

3-6, 3-7, 3-8)

3-9) 1 가

number = 5

1 2 3 4 5
16 0 0 0 6
15 0 0 0 7
14 0 0 0 8
13 12 11 10 9

```
Chapter 7. (2 )
```

```
3-10) 1 가
    number = 5
            2
17
                      4
19
       16
                 18
                25
22
11
       15
           24
                      20
       14
13
           23
12
                      21
10
3-11) number 가
       number = 5
                      2 2 2 3
        3 3 3
            2 2 2 3
                 2
1
2
3
3-12) 1 가
       number = 5
                6
                    10 15
               9
13
       2
                    14
                         19
            5
       4
7
                    18
21
            8
                          22
               17
            12
       11
          16 20
                     23
3-13)
       number = 3:
                 6
7
2
             1
            5
        3
       number = 5
                    :
       23
                     14
20
            5
                          16
          6 13 20
12 19 21
18 25 2
                         22
3
9
       10
11
1.
           (3X3, 5x5)
    가
2.
3.
4.
5.
          3x3
1. a[0][1]
       a[-1][2]
          a[2][2]
```

3.

Chapter 7. (2 )

# Chapter 8.

```
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum) {
        String strNum = new String(Integer.toString(targetNum));
        StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
           resultStr.append(' ');
       return (resultStr.append(strNum)).toString();
    public static void main(String args[])throws Exception{
        int n;
        System.out.print("please enter number : ");
        BufferedReader inputNum = new BufferedReader(new InputStreamReader(System.in));
       n = Integer.parseInt(inputNum.readLine());
       System.out.print('\n');
        int i=0;
        while(i<n){
           System.out.println(" i =" + format4(i) );
           i++;
        }
    }
}
       for(int i=0;i<n;i++)</pre>
    System.out.println(" i =" + format4(i) );
                                                             i가 가
                                        while
                               for
                                                                                            가
while
        for
       while(
                      ) {
                                                                    가
                                                                                  가
               가
    while
2.
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum){
        String strNum = new String(Integer.toString(targetNum));
        StringBuffer resultStr = new StringBuffer();
       for(int i = strNum.length(); i < 4; i++){
   resultStr.append(' ');</pre>
       return (resultStr.append(strNum)).toString();
   }
   public static void main(String args[])throws Exception{
        int[] a = new int[100];
        System.out.println("Print the contents of array a[]");
       a[0]
               = 1;
               = 2;
       a[1]
               = 3;
       a[2]
        a[3]
               = 4;
       a[4]
               = 5;
```

```
a[5]
                = 6;
        a[6]
                = 7;
                = 8;
        a[7]
        a[8]
                = 9;
        a[9]
                = 10;
        int i=0;
        while(a[i]>0){
           System.out.print(" i =" + format4(a[i]) );
    }
}
                     a[]
                                                    0
                                                            가
                                                                   100
0~9
            1~10
      1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 0, 0, 0, . . . ,
                                                 0
                                                             가
       12345678910
3.
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum) {
        String strNum = new String(Integer.toString(targetNum));
StringBuffer resultStr = new StringBuffer();
        for(int i = strNum.length(); i < 4; i++){
           resultStr.append(' ');
        return (resultStr.append(strNum)).toString();
    public static void main(String args[])throws Exception{
        int[] a = new int[100];
        System.out.println("Print the contents of array a[]");
        a[0]
                = 11;
                = 12;
        a[1]
        a[2]
                = 13;
        a[3]
                = 14;
        a[4]
                = 15;
                = 6;
= 7;
        a[5]
        a[6]
        a[7]
                = 8;
        a[8]
                = 9;
        a[9]
                = 10;
        int i=0;
        while(a[i]>0){
            if(a[i]>10){
               System.out.print(" big");
            }else{
                System.out.print(" small");
            í++;
        }
    }
}
big big big big small small small small small
4. break
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum){
```

String strNum = new String(Integer.toString(targetNum));

```
StringBuffer resultStr = new StringBuffer();
        for(int i = strNum.length(); i < 4; i++){
           resultStr.append(' ');
        return (resultStr.append(strNum)).toString();
    public static void main(String args[])throws Exception{
        int[] a = new int[100];
        System.out.println("Print the contents of array a[]");
        a[0]
                = 11;
        a[1]
                = 12;
        a[2]
                = 13;
        a[3]
                = 14;
        a[4]
                = 15;
        a[5]
                = 6;
        a[6]
                = 7;
                = 8;
        a[7]
        a[8]
                = 9;
        a[9]
                = 10;
        int i=0;
        while(true){
            if(a[i]<=0){
               break;
            if(a[i]>10){
               System.out.print(" big");
            }else{
               System.out.print(" small");
        }
    }
}
                                                      while
    while(true)
                  true
             while
                                        break
               3.
break
          while
                      for(;
                                  ; ), if(
                                               ), while(
                                                                                 true
                                                                                        false
import java.io.*;
public class JavaStart{
    public static String format4(int targetNum) {
        String strNum = new String(Integer.toString(targetNum));
        StringBuffer resultStr = new StringBuffer();
for(int i = strNum.length(); i < 4; i++){
    resultStr.append(' ');
        return (resultStr.append(strNum)).toString();
    public static void main(String args[])throws Exception{
        int[] a = new int[100];
        int[] b = new int[100];
        {\tt System.out.println("Print the contents of array a[]");}\\
        a[0]
                = 11;
        a[1]
                = 12i
        a[2]
                = 13;
        a[3]
                = 14;
        a[4]
                = 15;
        a[5]
                = 6;
        a[6]
                = 7;
        a[7]
                = 8;
        a[8]
                = 9;
```

Chapter 8.

```
a[9] = 10;
       int i=0;
       while(a[i]>0){// a[]}
                              b[]
         b[i]=a[i];
      System.out.println("Print the array b[]");
      i=0;
      while(b[i]>0){
          System.out.print(format4(b[i]));
      }
   }
}
            a[]
                                b[]
                                                         가
                               가
                        가
   가
      1 1
      12
      1121
      122111
      112213
      12221131
      1123123111
      12213111213113
      11221131132111311231
                                                      12 가
                                                               . 가
      1
                     1 1
                                      1 1
         2
                                                        n
                                                      , break
                                   while
С
          가
                            [
                                                    0
                                                              ]
```

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# Chapter 9.

### 9.1

 1
 1
 1

 1
 2
 1

 1
 3
 3
 1

 1
 4
 6
 4
 1

 1
 5
 10
 10
 5
 1

 .
 .
 .
 .
 .
 .
 .

2 .

### 9.2

. . . . .

1000 가 1000 0 999 for(i=0;i<1000;i++) a[i]=i; . 4 2 2 a[] 0 2 4, 6, 8, 10, 12, 14, ,,, 2 가 3 . 6 3 3 3 6, 9, 12, 15, 18, 21, ,,, 3 가 5가 . 5 . 10 5 5 10, 15, 20, 25, 30, 35, ,,, 5 가 7 7 . 14 7 7 14, 21, 28, 35, 42, 27, ,,, 7 가 11 11

Chapter 9.

1000 .

. a[6]=17

. 25

19 가 3

## Chapter 10.

```
가
                                         가
                                                               가
                    가
1.
import java.io.*;
public class FileEx1 {
   public static void main(String[] args) throws Exception {
       System.out.println("\nPlease enter File name:");
        BufferedReader inputName;
        inputName = new BufferedReader(new InputStreamReader(System.in));
        String filename = inputName.readLine();
        RandomAccessFile raf = new RandomAccessFile(filename, "r");
        c = raf.read();
while(c != -1) {
            System.out.print((char)c);
            c = raf.read();
        raf.close();
    }
}
                      File
                                                                 directory
                                                                                         Java
                                                  Java
                                                가
                                                                                  가 가
                                       가
                                                                   가
        c = raf.read();
    가
                                              byte
           Java
                            char
                                    가
                                                      가
                                                                                가 가
                           - 1
               가
                                               가
   - 1
                 Java
                          가
  가
                                            while
                                                                          (
                                                                               )
        c = raf.read();
        while(c != -1) {
                System.out.print((char)c);
                c = raf.read();
```

가

```
가
                                                              가
10.1
                                                      가
                                                                                     int
                                                                           . Java
               가
                                                          가 PC
                                  -2^63~(2^31-1)
4
      ASCII
                                                                      65
   가
                                                               가
                                                    65
                                                                                 Α
                  가
                        В
                             66
                                        가
                                              С
                                                   67
                                                                가
                                                                     ASCII
                                            Α
                                               ASCII
                                                              65, B
                                                                                  66, C
                                                                                          ASCII
        67
public class FileEx2 {
   public static void main(String[] args) {
       char a, b, c;
      a = 'A';
b = 'B';
       C = 'C';
       System.out.println(a + " " + b + " " + c);
   }
}
   авс
   System.out.println((int)a + " " + (int)b + " " + (int)c);
   65 66 67
public class FileEx3 {
   public static void main(String[] args) {
   int a, b, c;
       a = 65;
       b = 66;
       System.out.println((char)a + " " + (char)b + " " + (char)c);
   }
}
   A B C
         가
                                             가
                          Windows
                                                                 가
Linux
       Windows
                                                                             Windows
1.
import java.io.*;
public class FileEx4 {
   public static void main(String[] args) throws Exception {
       String filename;
       String foutname; int c;
```

```
BufferedReader inputName;
      inputName = new BufferedReader(new InputStreamReader(System.in));
      System.out.println("\nPlease enter input file name:");
      filename = inputName.readLine();
      System.out.println("\nPlease enter output file name:");
      foutname = inputName.readLine();
      RandomAccessFile fin = new RandomAccessFile(filename, "r");
      RandomAccessFile fout = new RandomAccessFile(foutname, "rw");
      c = fin.read();
      while(c !=-1) {
          fout.write(c);
          c = fin.read();
      fin.close();
      fout.close();
}
                                                                                   가
                        Java
                            가
                                          가
RandomAccessFile fin = new RandomAccessFile(filename, "r");
                                                                               . r
10.2
   69 6D 70 6F 72 74 20 6A 61 76 61 2E 69 6F 2E 2A
   import java.io.*
   3B OD OA OD OA 70 75 62 6C 69 63 20 63 6C 61 73
               public clas
   73 20 46 69 6C 65 45 78 34 20 7B 0D 0A 20 20 20
      FileEx4 {
   20 70 75 62 6c 69 63 20 73 74 61 74 69 63 20 76
   publics tatic v
    16
import java.io.*;
public class FileEx4 {
   public static void main(String[] args) throws Exception {
                                                   가
             import java.io.*;
                                     0D 0A
                                                                가
                                                                               public class
                              가
                                                                             가
FileEx4 {
               0D 0A
                                     . throws Exception {
                                                              0D 0A
   가
         가
                                     0D
                                                           가
                                                                                   가가
       0D
import java.io.*;
public class FileEx5 {
   public static void main(String[] args) throws Exception {
      String fname;
      int c;
      System.out.println("\nPlease enter input file name:");
```

```
BufferedReader inputName;
inputName = new BufferedReader(new InputStreamReader(System.in));
fname = inputName.readLine();

RandomAccessFile fin = new RandomAccessFile(fname, "r");

c = fin.read();
while(c != -1) {
    System.out.print(Integer.toHexString(c) + " ");
    c = fin.read();
}
fin.close();
}
```

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## Chapter 11.

```
4-1)
                                       가
    (
      ;*.oi.avaj tropmi
{ 1xE ssalc cilbup
{ )sgra ][gnirtS(niam diov citats cilbup
       ;n ,j ,i tni
  4-2)
                                    가
   (
                                               )
            . . . . . . . . . . . . . . . .
                               . . . . . . . . . int i, j, n;
                    public static void main(String[] args) {
      public class Ex2 {
import java.io.*;
  4-3)
                                    가
                                                )
   (
    iр
    рb
    o 1
    rip
        b
    jс
       1
    ali .
vaci.
    a s
        n
     s s t
        t
    o E a i .
     x t
3 i
        c j
        v
        on .
        i ; . . . . .
  4-4)
                           $$$
      import java.io.*;$$$import java.io.*;
public class Ex4 {$$$public class Ex4-2 {
          public static void main(String[] args) {$$$public static void main(String[])
args) {
                    int i, j, n;$$$int a10={0,};
               4-5)
           4 - 4
```

```
import java.io.*;$$$;*.oi.avaj tropmi
public class Ex5 {$$${ 5xE ssalc cilbup
       public static void main(String[] args) {$$${ )sgra ][gnirtS(niam diov citats
cilbup
       int i, j, n;$$;n ,j ,i tni
  4-6)
                          hexa
          가 16
    (
                        .)
1.
       6
2.
         16
3.
4.8
5.
                             3
6.
<!--
                                              isprint
                                                                    .)-->
        (
7.
                                   61 76 61 2e 69 6f 2e 2a import java.io.*
000000
        69 6d 70 6f 72 74 20 6a
                                   6c 69 63 20 63 6c 61 73 ;....public clas 7b 0d 0a 20 20 20 20 70 s sol45 {... p
000010
        3b 0d 0a 0d 0a 70 75 62
000020
        73 20
              73 6f
                     6с
                        34
                           35
                               20
000030
        75 62 6c 69 63 20 73 74
                                   61 74 69 63 20 76 6f 69 ublic static voi
000040
        64 20 6d 61
                     69
                        6e
                           28
                              53
                                   74
                                      72 69 6e 67 5b 5d 20 d main(String[]
        61 72 67 73 29 20
                           74 68
                                   72 6f 77 73 20 49 4f 45 args) throws IOE
000050
                                   20 7b 0d 0a 0d 0a 20 20 xception \{\dots
000060
        78 63 65 70 74 69 6f 6e
        20 20 20 20 20 20 69 6e
000070
                                   74
                                      20 69 3b 0d 0a 20 20
                                                                   int i;..
                                                                   String st
080000
        20 20 20 20 20 20 53 74
                                   72 69 6e 67 20 73 74 20
000090
        3d 20 22 20 22
                        2c
                           20
                               73
                                   74
                                      72 20 3d 20 22
                                                      20 22 = " ", str = " "
        2c 20 74 65 6d 70
                                   20 22 20 22 3b 0d 0a 3d , temp = " ";...
0000a0
                           20
                              3d
                                   20 74 72 79 20 7b 0d 0a .
        3a 20 20 20 20 20 20 20
0000b0
        20 20 20 20 20 20 20 20
                                   20 20 20 20 52 61 6e 64
0000c0
                                                                         Rand
0000d0
        6f 6d 41 63 63 65 73 73
                                   46 69 6c 65 20 69 6e 20 omAccessFile in
0000e0
        3d 20 6e 65 77
                        20 52 61
                                   6e 64 6f 6d 41 63 63 65 = new RandomAcce
0a 7d
                                                                   }..}
import java.io.*;
public class Ex6 {
   public static void main(String[] args) throws Exception {
       String fname;
       int line[] = new int[100];
       int c;
       System.out.println("\nPlease enter input file name:");
       BufferedReader inputName;
       inputName = new BufferedReader(new InputStreamReader(System.in));
       fname = inputName.readLine();
       RandomAccessFile fin = new RandomAccessFile(fname, "r");
       c = fin.read();
       while(c != -1) {
   if(c != 13) {
           } else {
               13
                                ND
                                     0D
                  가
                         0A
                               가
```

```
c = fin.read();
                                   가
        while
                                                             가
        fin.close();
    }
}
    c = fin.read();
    while(c != -1) {
        c = fin.read();
    if(c != 13) {
    élse {
        13 (
                       0D)
                                                         0A
import java.io.*;
public class Ex6_2 {
   public static void main(String[] args) throws Exception {
        String fname1, fname2;
         int line[] = new int[100];
        int c, d;
        System.out.println("\nPlease enter input file name:");
        BufferedReader inputName;
         inputName = new BufferedReader(new InputStreamReader(System.in));
        fname1 = inputName.readLine();
System.out.println("\nPlease enter input file name:");
        fname2 = inputName.readLine();
        RandomAccessFile fin1 = new RandomAccessFile(fname1, "r");
RandomAccessFile fin2 = new RandomAccessFile(fname2, "r");
        c=0;
        d=0;
        while(c != -1 && d != -1) {
   c = fin1.read();
   while((c != -1)&&(c != 13)) {
                 c = fin1.read();
             // while loop
                                             . -1
                                                             13
```

#### Chapter 11.

```
if(c != -1) {
         13 .
                            .
0D
                       0D
              가
                  0A
        } else {
        //
}
        d = fin2.read();
        while((d != -1)&&(d != 13)) {
        d = fin2.read();
}
                            . -1 13
        // while loop
        if(c != -1) {
         13 .
                             .
0D
                        0D
              가
                  0A
                        가
        } else {
          //
                      . file1 file2
                                . 가
     fin1.close();
fin2.close();
  }
}
```