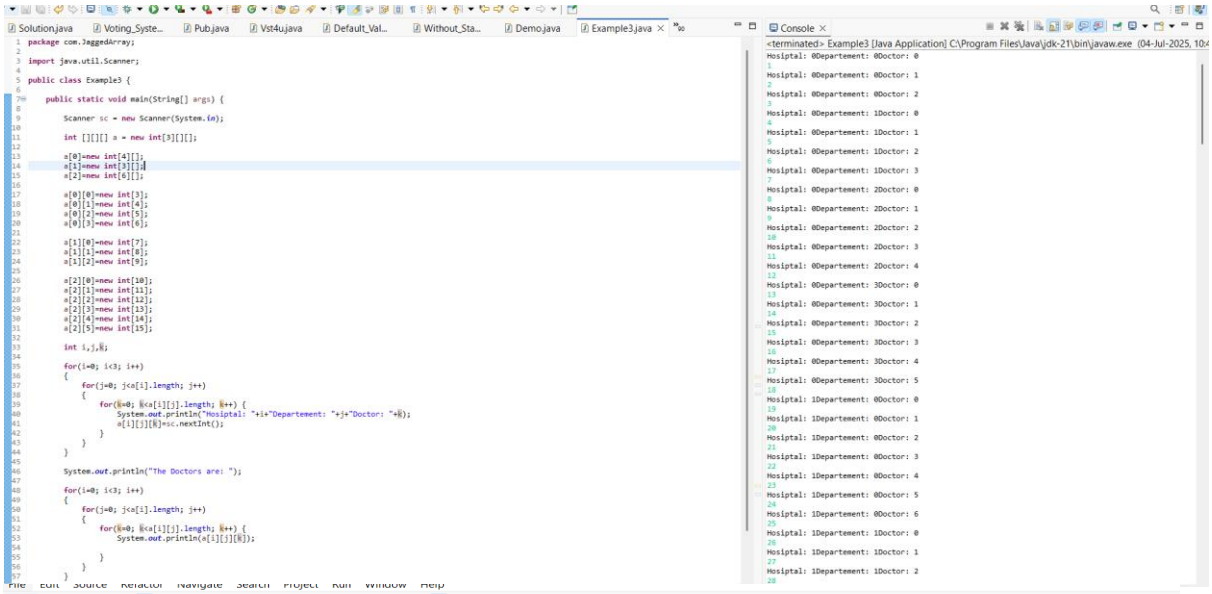
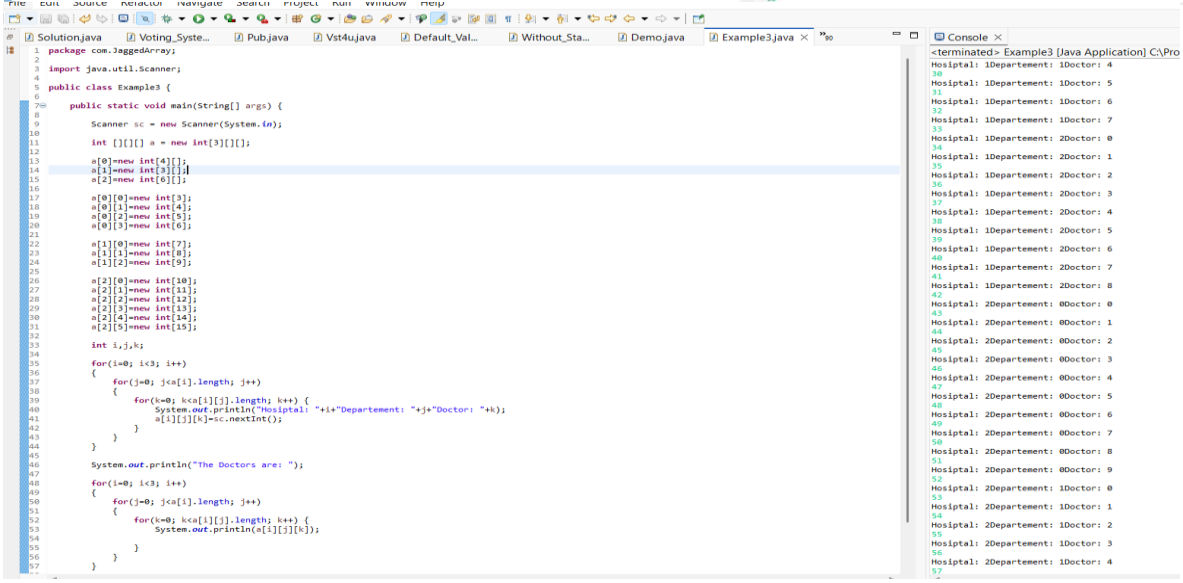
ASSIGNMENT-22

BHARATH KUMAR G R | BATCH-A4|VSN:VS4US1298|DATE:04/07/2025

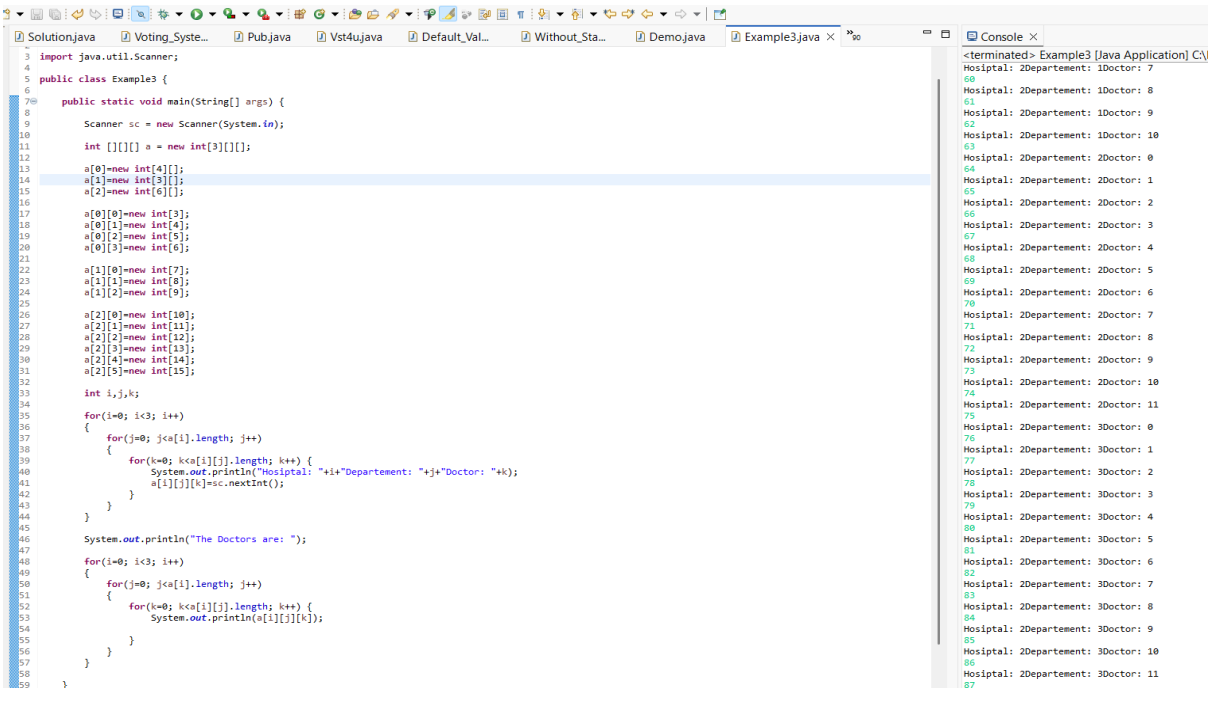


```
package com.JaggedArray;

import java.util.Scanner;

public class Example3 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int [][][] a = new int[3][][];

        a[0]=new int[4][];
        a[1]=new int[3][];
        a[2]=new int[6][];

        a[0][0]=new int[3];
        a[0][1]=new int[4];
        a[0][2]=new int[5];
        a[0][3]=new int[6];

        a[1][0]=new int[7];
        a[1][1]=new int[8];
        a[1][2]=new int[9];

        a[2][0]=new int[10];
        a[2][1]=new int[11];
        a[2][2]=new int[12];
        a[2][3]=new int[13];
        a[2][4]=new int[14];
        a[2][5]=new int[15];

        int i,j,k;

        for(i=0; i<3; i++)
        {
            for(j=0; j<a[i].length; j++)
            {
                for(k=0; k<a[i][j].length; k++) {
                    System.out.println("Hosiptal: "+i+"Departement: "+j+"Doctor: "+k);
                    a[i][j][k]=sc.nextInt();
                }
            }
        }

        System.out.println("The Doctors are: ");

        for(i=0; i<3; i++)
        {
            for(j=0; j<a[i].length; j++)
            {
                for(k=0; k<a[i][j].length; k++) {
                    System.out.println(a[i][j][k]);

                }
            }
        }
```

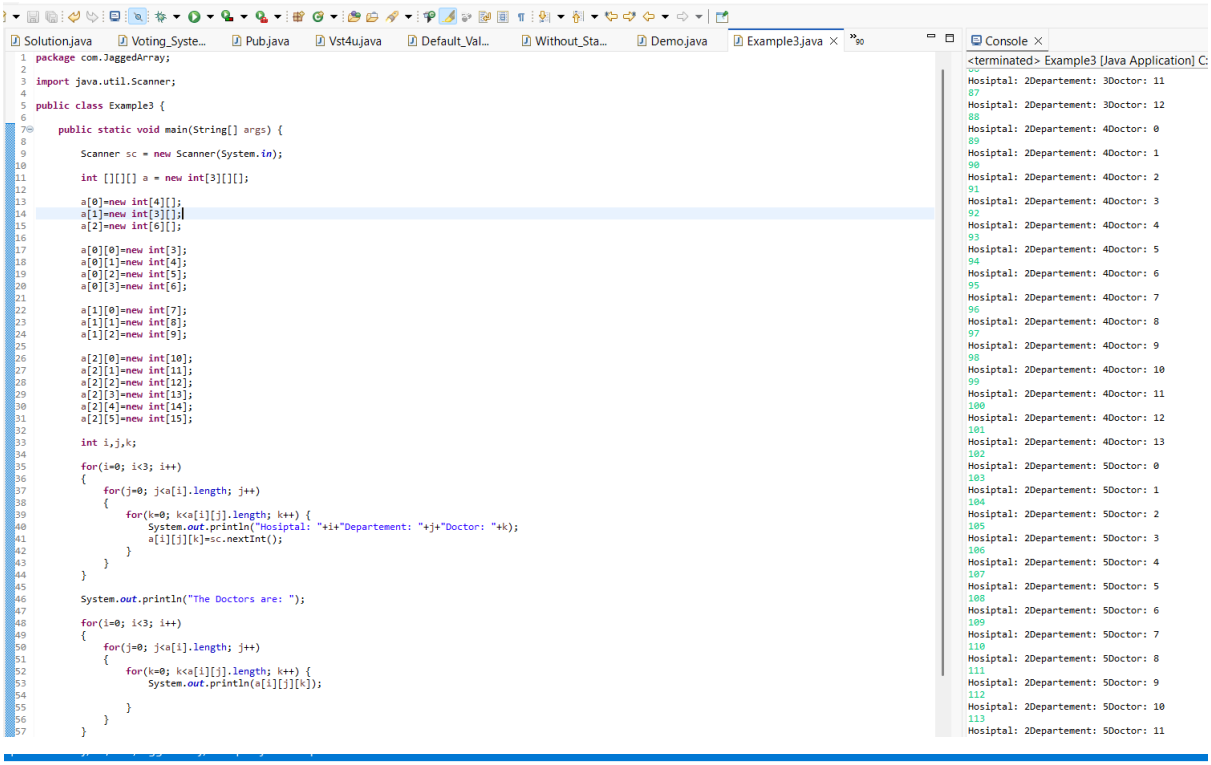
```
Hosiptal: 0Departement: 0Doctor: 0
Hosiptal: 0Departement: 0Doctor: 1
Hosiptal: 0Departement: 0Doctor: 2
Hosiptal: 0Departement: 1Doctor: 0
Hosiptal: 0Departement: 1Doctor: 1
Hosiptal: 0Departement: 1Doctor: 2
Hosiptal: 0Departement: 1Doctor: 3
Hosiptal: 0Departement: 2Doctor: 0
Hosiptal: 0Departement: 2Doctor: 1
Hosiptal: 0Departement: 2Doctor: 2
Hosiptal: 0Departement: 2Doctor: 3
Hosiptal: 0Departement: 2Doctor: 4
Hosiptal: 0Departement: 3Doctor: 0
Hosiptal: 0Departement: 3Doctor: 1
Hosiptal: 0Departement: 3Doctor: 2
Hosiptal: 0Departement: 3Doctor: 3
Hosiptal: 0Departement: 3Doctor: 4
Hosiptal: 0Departement: 3Doctor: 5
Hosiptal: 1Departement: 0Doctor: 0
Hosiptal: 1Departement: 0Doctor: 1
Hosiptal: 1Departement: 0Doctor: 2
Hosiptal: 1Departement: 0Doctor: 3
Hosiptal: 1Departement: 0Doctor: 4
Hosiptal: 1Departement: 0Doctor: 5
Hosiptal: 1Departement: 0Doctor: 6
Hosiptal: 1Departement: 1Doctor: 0
Hosiptal: 1Departement: 1Doctor: 1
Hosiptal: 1Departement: 1Doctor: 2
```



```
Hosiptal: 1Departement: 1Doctor: 4
Hosiptal: 1Departement: 1Doctor: 5
Hosiptal: 1Departement: 1Doctor: 6
Hosiptal: 1Departement: 1Doctor: 7
Hosiptal: 1Departement: 2Doctor: 0
Hosiptal: 1Departement: 2Doctor: 1
Hosiptal: 1Departement: 2Doctor: 2
Hosiptal: 1Departement: 2Doctor: 3
Hosiptal: 1Departement: 2Doctor: 4
Hosiptal: 1Departement: 2Doctor: 5
Hosiptal: 1Departement: 2Doctor: 6
Hosiptal: 1Departement: 2Doctor: 7
Hosiptal: 1Departement: 2Doctor: 8
Hosiptal: 2Departement: 0Doctor: 0
Hosiptal: 2Departement: 0Doctor: 1
Hosiptal: 2Departement: 0Doctor: 2
Hosiptal: 2Departement: 0Doctor: 3
Hosiptal: 2Departement: 0Doctor: 4
Hosiptal: 2Departement: 0Doctor: 5
Hosiptal: 2Departement: 0Doctor: 6
Hosiptal: 2Departement: 0Doctor: 7
Hosiptal: 2Departement: 0Doctor: 8
Hosiptal: 2Departement: 0Doctor: 9
Hosiptal: 2Departement: 1Doctor: 0
Hosiptal: 2Departement: 1Doctor: 1
Hosiptal: 2Departement: 1Doctor: 2
Hosiptal: 2Departement: 1Doctor: 3
Hosiptal: 2Departement: 1Doctor: 4
```



```
Hosiptal: 2Departement: 1Doctor: 7
Hosiptal: 2Departement: 1Doctor: 8
Hosiptal: 2Departement: 1Doctor: 9
Hosiptal: 2Departement: 1Doctor: 10
Hosiptal: 2Departement: 2Doctor: 0
Hosiptal: 2Departement: 2Doctor: 1
Hosiptal: 2Departement: 2Doctor: 2
Hosiptal: 2Departement: 2Doctor: 3
Hosiptal: 2Departement: 2Doctor: 4
Hosiptal: 2Departement: 2Doctor: 5
Hosiptal: 2Departement: 2Doctor: 6
Hosiptal: 2Departement: 2Doctor: 7
Hosiptal: 2Departement: 2Doctor: 8
Hosiptal: 2Departement: 2Doctor: 9
Hosiptal: 2Departement: 2Doctor: 10
Hosiptal: 2Departement: 2Doctor: 11
Hosiptal: 2Departement: 3Doctor: 0
Hosiptal: 2Departement: 3Doctor: 1
Hosiptal: 2Departement: 3Doctor: 2
Hosiptal: 2Departement: 3Doctor: 3
Hosiptal: 2Departement: 3Doctor: 4
Hosiptal: 2Departement: 3Doctor: 5
Hosiptal: 2Departement: 3Doctor: 6
Hosiptal: 2Departement: 3Doctor: 7
Hosiptal: 2Departement: 3Doctor: 8
Hosiptal: 2Departement: 3Doctor: 9
Hosiptal: 2Departement: 3Doctor: 10
Hosiptal: 2Departement: 3Doctor: 11
```



```
package com.JaggedArray;

import java.util.Scanner;

public class Example3 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int [][][] a = new int[3][][];

        a[0]=new int[4][];
        a[1]=new int[3][];
        a[2]=new int[6][];

        a[0][0]=new int[3];
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        a[0][2]=new int[5];
        a[0][3]=new int[6];

        a[1][0]=new int[7];
        a[1][1]=new int[8];
        a[1][2]=new int[9];

        a[2][0]=new int[10];
        a[2][1]=new int[11];
        a[2][2]=new int[12];
        a[2][3]=new int[13];
        a[2][4]=new int[14];
        a[2][5]=new int[15];

        int i,j,k;

        for(i=0; i<3; i++)
        {
            for(j=0; j<a[i].length; j++)
            {
                for(k=0; k<a[i][j].length; k++) {
                    System.out.println("Hosiptal: "+i+"Departement: "+j+"Doctor: "+k);
                    a[i][j][k]=sc.nextInt();
                }
            }
        }

        System.out.println("The Doctors are: ");

        for(i=0; i<3; i++)
        {
            for(j=0; j<a[i].length; j++)
            {
                for(k=0; k<a[i][j].length; k++) {
                    System.out.println(a[i][j][k]);

                }
            }
        }
```
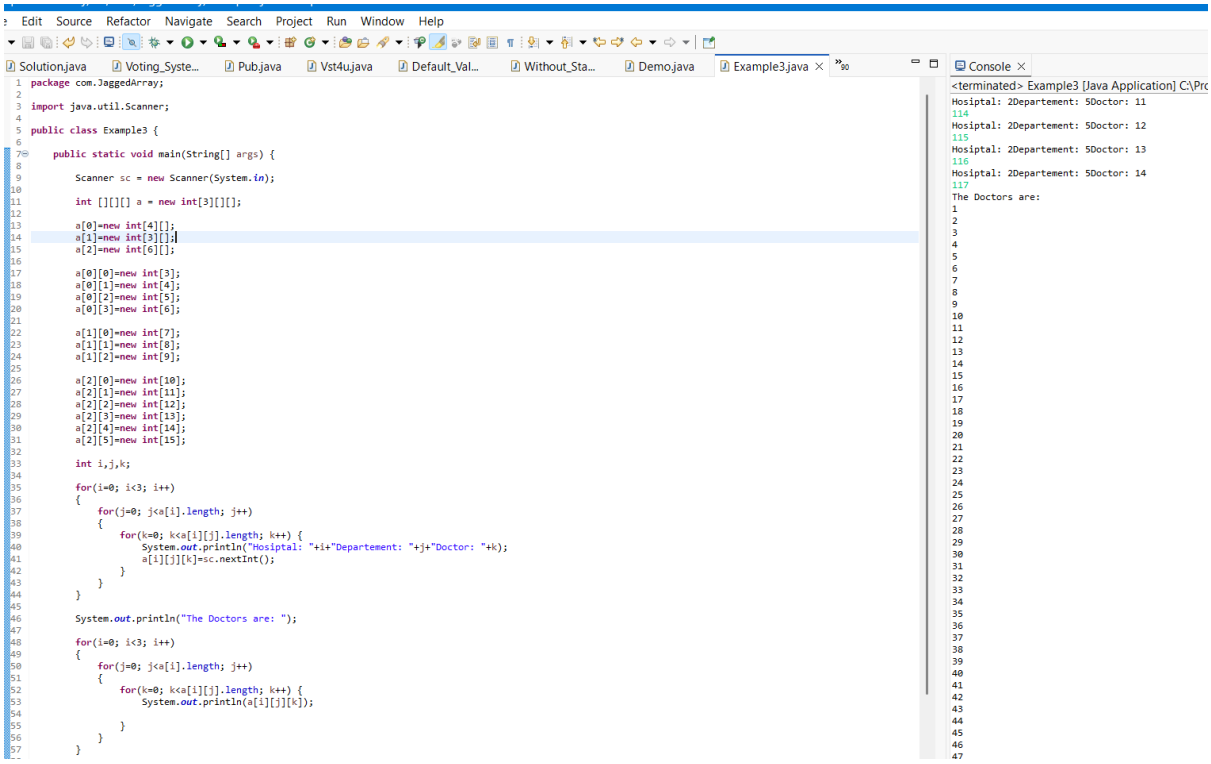

```
Hosiptal: 2Departement: 3Doctor: 11
87
Hosiptal: 2Departement: 3Doctor: 12
88
Hosiptal: 2Departement: 4Doctor: 0
89
Hosiptal: 2Departement: 4Doctor: 1
90
Hosiptal: 2Departement: 4Doctor: 2
91
Hosiptal: 2Departement: 4Doctor: 3
92
Hosiptal: 2Departement: 4Doctor: 4
93
Hosiptal: 2Departement: 4Doctor: 5
94
Hosiptal: 2Departement: 4Doctor: 6
95
Hosiptal: 2Departement: 4Doctor: 7
96
Hosiptal: 2Departement: 4Doctor: 8
97
Hosiptal: 2Departement: 4Doctor: 9
98
Hosiptal: 2Departement: 4Doctor: 10
99
Hosiptal: 2Departement: 4Doctor: 11
100
Hosiptal: 2Departement: 4Doctor: 12
101
Hosiptal: 2Departement: 4Doctor: 13
102
Hosiptal: 2Departement: 5Doctor: 0
103
Hosiptal: 2Departement: 5Doctor: 1
104
Hosiptal: 2Departement: 5Doctor: 2
105
Hosiptal: 2Departement: 5Doctor: 3
106
Hosiptal: 2Departement: 5Doctor: 4
107
Hosiptal: 2Departement: 5Doctor: 5
108
Hosiptal: 2Departement: 5Doctor: 6
109
Hosiptal: 2Departement: 5Doctor: 7
110
Hosiptal: 2Departement: 5Doctor: 8
111
Hosiptal: 2Departement: 5Doctor: 9
112
Hosiptal: 2Departement: 5Doctor: 10
113
Hosiptal: 2Departement: 5Doctor: 11
```



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        {
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            {
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                    System.out.println(a[i][j][k]);

                }
            }
        }
```

```
Hosiptal: 2Departement: 5Doctor: 11
114
Hosiptal: 2Departement: 5Doctor: 12
115
Hosiptal: 2Departement: 5Doctor: 13
116
Hosiptal: 2Departement: 5Doctor: 14
117
The Doctors are:
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
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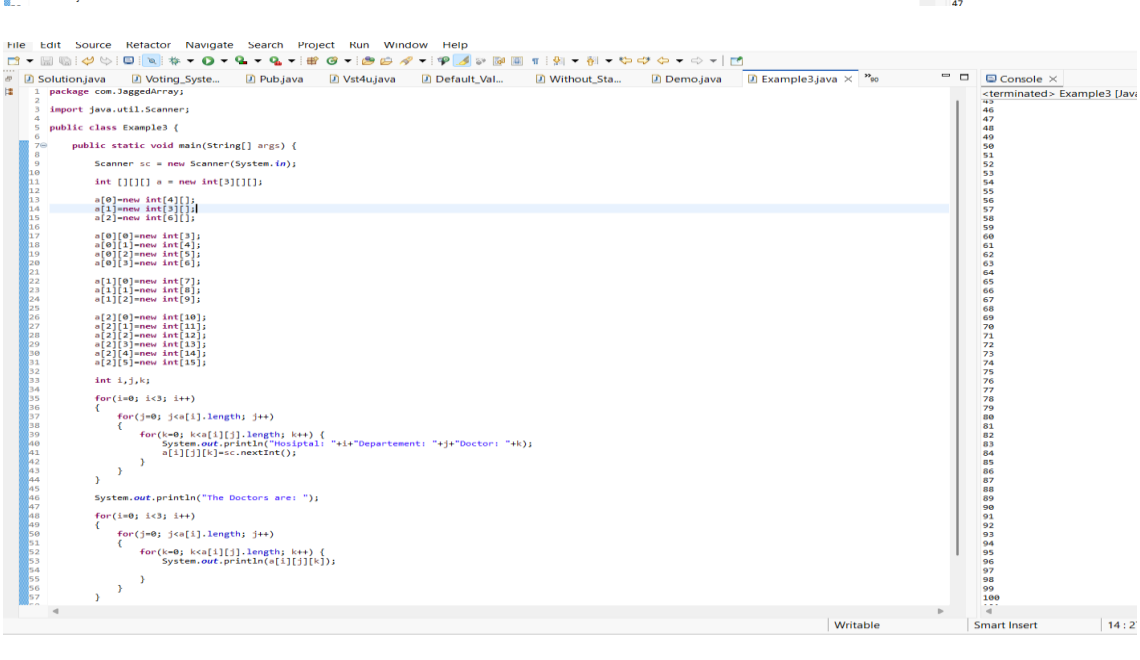
```



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        {
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            {
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                    System.out.println(a[i][j][k]);

                }
            }
        }
```

```
Writable
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```

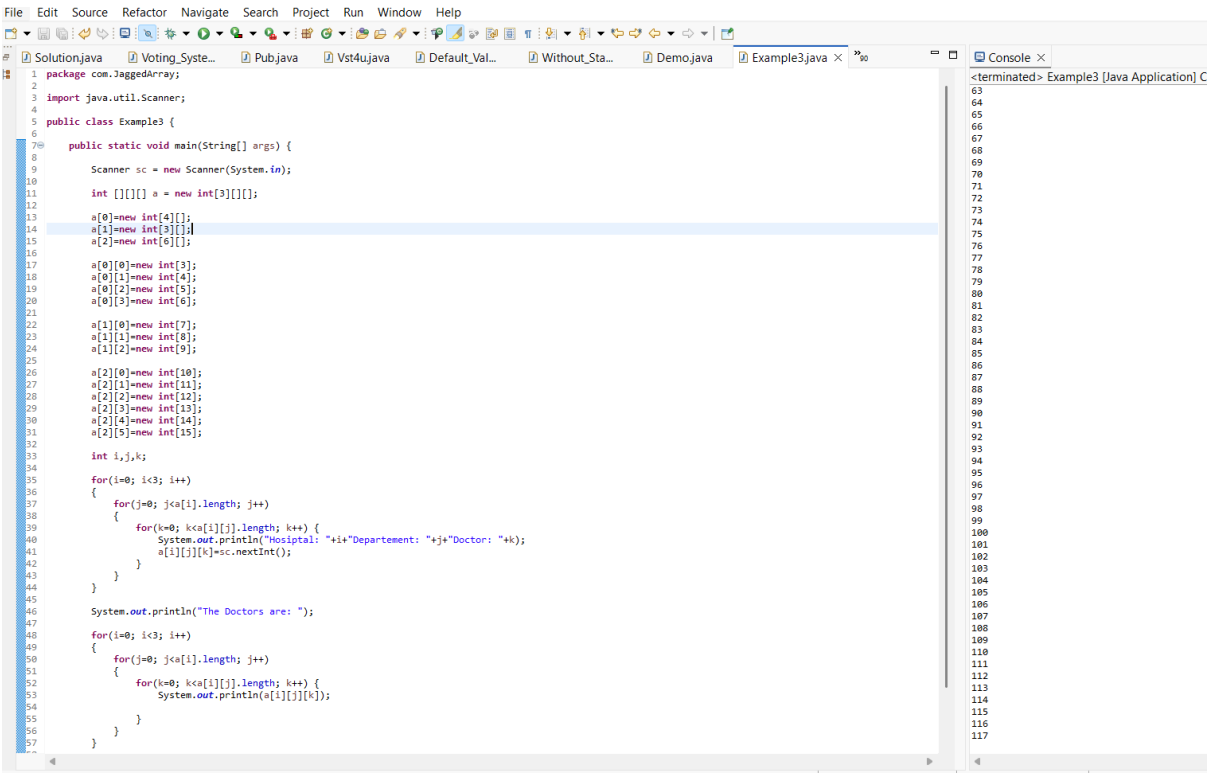
File Edit Source Refactor Navigate Search Project Run Window Help
Solution.java
Voting_Syste...
Pub.java
Vst4u.java
Default_Val...
Without_Sta...
Demo.java
Example3.java
Console
<terminated> Example3 [Java Application] C
package com.JaggedArray;
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a[1]=new int[3][];
a[2]=new int[6][];
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a[1][1]=new int[8];
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a[2][0]=new int[10];
a[2][1]=new int[11];
a[2][2]=new int[12];
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a[2][5]=new int[15];
int i,j,k;
for(i=0; i<3; i++)
{
for(j=0; j<a[i].length; j++)
{
for(k=0; k<a[i][j].length; k++) {
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}
}
}
System.out.println("The Doctors are: ");
for(i=0; i<3; i++)
{
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{
for(k=0; k<a[i][j].length; k++) {
System.out.println(a[i][j][k]);
}
}
}