

Name: \_\_\_\_\_

Determine the contents of each array after the code segment is executed.

```
1) int[,] matrix = new int[3, 3];
   for (int i = 0; i < 3; i++)
   {
       for (int j = 0; j < 3; j++)
       {
           matrix[i, j] = i * 3 + j + 1;
       }
   }
```

```
2) int[,] matrix = { { 1, 2, 3 }, { 4, 5, 6 }, { 7, 8, 9 } };
   for (int i = 0; i < 3; i++)
   {
       matrix[i, 0] = 0;
   }
```

```
3) int[,] matrix = new int[2, 2];
   matrix[0, 0] = 1;
   matrix[0, 1] = 2;
   matrix[1, 0] = 3;
   matrix[1, 1] = 4;
   matrix[1, 0] = 5;
```

```
4) int[,] matrix = new int[2, 3];
   for (int i = 0; i < 2; i++)
   {
       for (int j = 0; j < 3; j++)
       {
           matrix[i, j] = i + j;
       }
   }
```

```
5) int[,] matrix = { { 1, 2, 3 }, { 4, 5, 6 }, { 7, 8, 9 } };
   for (int i = 0; i < 3; i++)
   {
       for (int j = 0; j < 3; j++)
       {
           if (matrix[i, j] % 2 == 0)
           {
               matrix[i, j] = 0;
           }
       }
   }
```

```
6) int[,] matrix = new int[3, 3];
   int value = 1;
   for (int i = 0; i < 3; i++)
   {
       for (int j = 0; j < 3; j++)
       {
           matrix[i, j] = value;
           value++;
       }
   }
```

```
7) int[,] matrix = new int[2, 2] { { 1, 2 }, { 3, 4 } };  
    for (int i = 0; i < 2; i++)  
    {  
        for (int j = 0; j < 2; j++)  
        {  
            matrix[i, j] *= 2;  
        }  
    }
```

```
8) int[,] matrix = new int[3, 3];  
    for (int i = 0; i < 3; i++)  
    {  
        for (int j = 0; j < 3; j++)  
        {  
            matrix[i, j] = (i + 1) * (j + 1);  
        }  
    }
```