

Reference Variable to 2d Arrays

- ❑ `int arr[][];`
- ❑ `int [][]arr;`



Creating 2d Arrays

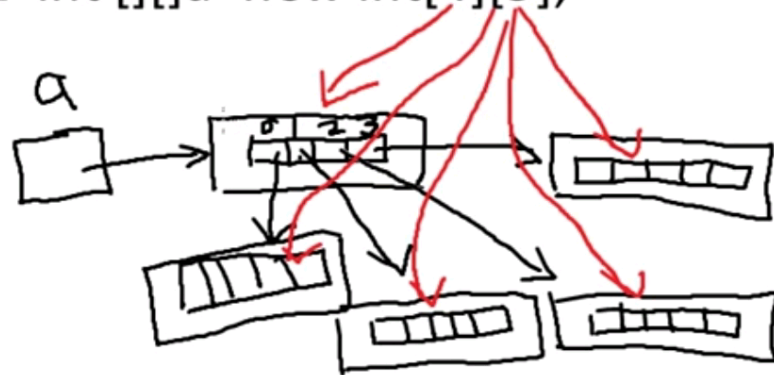
❑ `int [][]a=new int[4][5];`
I

❑ But

- `int [][]a=new int[][]; //Error`
- `int [][]a=new int[][5]; //Error`
- `int [][]a=new int[4][]; //correct`



□ `int [][]a=new int[4][5];`



Initializing 2d Arrays

```
int [][]a=new int[][] {{3,4},{5,6},{7,8}};
```



Find Error

```
public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        System.out.println("a[0][0]" + a[0][0]);
    }
}
```



```

public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        System.out.println("a[0][0]"+"a[0][0]);
    }
}

```



Find Output

```
public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        System.out.println("a[0]="+a[0]);
    }
}
```



Use of length property

```
public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        System.out.println("Length="+a.length);
    }
}
```



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Find Output

```
public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        System.out.println("Length="+a[0].length);
    }
}
```



Distinct length feature

- ❑ In java it is possible to declare a 2d array with different length of each array.

```
public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        a[0]=new int[5];
        a[1]=new int[3];
        System.out.println("Length="+a[1].length);
    }
}
```



```

public class Example1
{
    public static void main(String []args)
    {
        int [][]a=new int[4][];
        a[0]=new int[5];
        a[1]=new int[3];
        System.out.println("Length="+a[1].length);
    }
}

```

