

Topic: 2-D arrays

```
int[][] arr; // declaration
```

// construction

```
arr = new int[5][8];
```

```
for (int i=0; i<5; i++)
    for (int j=0; j<8; j++)
        arr[i][j] = ...;
```

↑ rows ↑ columns

to get # of rows:

```
arr.length
```

to get # of columns:

```
arr[0].length
```

↑ first row

interface `java.util.List<E>`

↑
declares methods that must be in classes "which implement" the interface

↑
stands for any class

⇓
list of "E"-type objects

you can actually build a List using
`java.util.ArrayList<E>`
 which implements `java.util.List<E>`

`ArrayList` is like an array which automatically expands and contracts...
AND HAS METHODS!

IDX - agents for
programmers