

**Lab Goal :** This lab was designed to teach you how to use a matrix, an array of arrays.

**Lab Description :** Read in one word at a time from the file and output the word as an hourglass.

### Sample Data :

6  
HELLO  
CAT  
A  
DOGHOUSE  
ONE  
IT

# of data sets in the file - 6

### Files Needed ::

FancyWord.java  
FancyWordRunner.java  
fancyword.dat

### Sample Output :

HELLO  
 E L  
 L  
 E L  
HELLO

CAT  
 A  
CAT

A

DOGHOUSE  
 O S  
 G U  
 HO  
 HO  
 G U  
 O S  
DOGHOUSE

ONE  
 N  
ONE

IT  
IT

### algorithm help

```
for(int i = 0; i < word.length(); i++)
{
    mat[0][i] = word.substring( i , i+1 );

    //3 more statements
    //like the one I gave you
}
```