

**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++)  
{  
    mymat[0][i] = word.charAt(i);  
    //3 more statements  
    //like the one I gave you  
}
```