

**Lab Goal :** This lab was designed to teach you how to use a Map.

**Lab Description :** Read in a list of Spanish words with English equivalents and use the pairs to write a basic low level translation program. The Spanish word will be the key and the English word will be the value. Maps store <key,value> pairs.

### Sample Output :

==== MAP CONTENTS =====

```
{a=to
 antes=before
 barco=ship
 borrar=delete
 cafe=brown
 casa=house
 comprar=buy
 con=with
 contaminado=corrupt
 de=of
 despues=after
 dos=two
 el=the
 en=in
 energia=power
 es=is
 fallo=bug
 hambre=hunger
 interno=internal
 la=the
 los=the
 memoria=memory
 mi=my
 mitad=half
 muchachos=boys
 necesita=necessary
 nosotros=we
 ordenador=computer
 pantalla=screen
 papel=paper
 pelo=hair
 quieres=want
 quiero=want
 rearrancar=reboot
 su=your
 tarde=afternoon
 texto=text
 tienen=have
 tinta=ink
 todas=all
 tu=you
 una=a
 vacio=empty
 vamos=go
 virus=virus
 yo=i}
```

```
i want a computer virus
all of the boys have internal memory
my hair is brown
you want ink with your paper
reboot the computer to empty the screen
```

**The data file  
contains a list of  
Spanish words and an  
English equivalent.**

**After you load the  
map, read in each  
sentence and  
translate it.**

### Files Needed ::

**SpanishToEnglish.java  
SpanRunner.java  
spantoeng.dat**

### Sample Data :

```
46
rearrancar reboot
pantalla screen
texto text
virus virus
tinta ink
mitad half
interno internal
memoria memory
papel paper
energia power
fallo bug
pelo hair
el the
dos two
todas all
en in
de of
los the
comprar buy
tarde afternoon
quieres want
muchachos boys
tienen have
ordenador computer
con with
antes before
vacio empty
tu you
hambre hunger
contaminado corrupt
a to
una a
la the
cafe brown
su your
es is
quiero want
vamos go
mi my
barco ship
nosotros we
casa house
yo i
borrar delete
necesita necessary
despues after
yo quiero una ordenador virus
todas de los muchachos tienen interno memoria
mi pelo es cafe
```