

## **GREETING IN A BOX** **PROBLEM**

This problem requires you to display a greeting within a box frame on the screen. The input data file, which must be called **greeting.txt** , will contain four lines of data, with the data on each line beginning in the first column of that line.

Line 1 contains the number of spaces the box frame is to be indented from the left margin.

Line 2 contains the number of blank spaces that must surround the greeting on all four sides.

Line 3 contains the character to be used to draw the box frame.

Line 4 contains the name of the person to whom the greeting is to be addressed, and you should note that the person's name need not be just a single word.

Your program must read all of this information from the file and then display a greeting to the person named in the file. The displayed greeting must have the exact form illustrated in the sample output, and it must be positioned properly within the box frame. The box frame must itself be drawn using the correct character from the input data, and must be positioned properly on the screen.

Your program must also display a "digit ruler" of length 80 digits immediately above the box frame so that the judges (and you) may more easily determine the precise location of your output. This ruler is also shown in the sample output, since it is in fact part of the output.

### **Sample input data (greeting.txt)**

```
4
2
*
George W. Bush
```

### **Sample Output:**

```
123456789012345678901234567890123456789012345678901234567890123456
*****
*
*
*   Hello there, George W. Bush!   *
*
*
*****
```

### Data Set 1 - Input

0  
4  
H  
Madonna

### Judge Data Set 1 - Output

```
123456789012345678901234567890123456789012345678901234567890123456
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
H                                     H
H                                     H
H                                     H
H                                     H
H   Hello there, Madonna!           H
H                                     H
H                                     H
H                                     H
H                                     H
H                                     H
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
```

### Data Set 2 - Input

10  
1  
?  
Last Chance

### Data Set 2 - Output

```
123456789012345678901234567890123456789012345678901234567890123456
????????????????????????????????????????????
?                                     ?
? Hello there, Last Chance! ?
?                                     ?
????????????????????????????????????????????
```