



result:

id:	2
kind:	TXT_VAL
data.int_val:	
data.dbl_val:	Fred
data.txt_val:	

### Main

i: 2

db\_data[]:

id:	0
kind:	DBL_VAL
data.int_val:	
data.dbl_val:	3.1415
data.txt_val:	
id:	1
kind:	INT_VAL
data.int_val:	
data.dbl_val:	27
data.txt_val:	
id:	2
kind:	TXT_VAL
data.int_val:	
data.dbl_val:	Fred
data.txt_val:	

Instruction: Step 2

### Function: Read Row

Returns: Row - a Row with data read from the user

Parameters:

1: next id (Integer) - the id of the row to be read

Local Variables:

\*: line (String - 16 characters) - the text read from the user

Steps:

- 1: Set result's id to next id
- 2: Output 'Enter value: ' to the Terminal
- 3: Read text entered by user into line
- 4: If line is an integer
- 5:     set result's data's Int Val to the integer value in line
- 6:     set result's kind to INT\_VAL
- 7: Else If line is a double
- 8:     set result's data's Dbl Val to the double value in line
- 9:     set result's kind to DBL\_VAL
- 10: Else
- 11:     set result's data's Txt Val to the text in line
- 12:     set result's kind to TXT\_VAL
- 13: Output "Stored in row with id " and result's id
- 14: Return the result

### Procedure: Main

Local Variables:

\*: db\_data (array containing 3 Row values)

\*: i (Integer) -

Steps:

- 1: for i loops over each element in db\_data
- 2:     set db\_data[i] to result of calling Read Row(i)
- 3: ...

Third time through returns this value, which is copied into the array

Second time through the loop assigns a value to this element

Each time the value returned is stored in an element of the array

