



Gets access to space
into which you can
store a value
(a record in this case)

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

Returns the space
so that it can be allocated
to something else

Allocate Space

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Function: Read Row
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Return: Row with data read from the user
Parameters:
1: next id (integer) the id of the row to be read
Local Variables:
1: line (String) = 16 char read - 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 set result's data's Txt Val to the text in line
11:   set result's kind to TXT_VAL
12:   Output "Stored in row with id ", and result's id
13:   Return the result
14: Return the result

Procedure: Main
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Local Variables:
1: data (array containing 3 Row values)
1: i (integer)
Steps:
1: for i loops over each element in data
2:   set data[i] to result of calling Read Row(i)
3: ...
```

Func or Proc

val:

5

Instruction:

Step 2

Free Space

