## How would I create my own CBL\_ALLOC\_MEM and CBL\_FREE\_MEM routines?

## Here are some examples:

	IDENTIFICATION DIVISION.	PROGRAM-ID.	CBL_ALLOC_MEM.	ENVIRONMENT DIVI		
SION.	DATA DIVISION.	LINKAGE SECTION.	01 LNK-MEM-P	OINTER POINTER		
	01 LNK-MEM-SIZE	UNSIGNED-INT.	01 LNK-FLAGS	UNSIGNED-IN		
т.	PROCEDURE DIVISION USI	NG LNK-MEM-POINTER		LNK-ME		
M-SIZE		LNK-FLAGS.	MAIN.	IF LNK-MEM-SI		
ZE GRE	ATER THAN ZERO	CALL "calloc"	USING BY VALUE 1			
	BY VALUE LNK-MEM-SIZE		RETURNING LNK-MEM-			
POINTE	R END-IF.	GOBACK.				

	IDENTIFICATION DIVISION.	PROGRAM-ID.	CBL_FREE_MEM.	ENVIRONMENT DIVIS
ION.	DATA DIVISION.	LINKAGE SECTION.	01 LNK-MEN	M-POINTER POINTER.
	PROCEDURE DIVISION USING	LNK-MEM-POINTER.	MAIN.	IF LNK-MEM-POIN
TER NO	Γ EQUAL TO ZERO	CALL "free"	USING BY VALUE	LNK-MEM-
POINTE	R END-IF.	GOBACK.		

Note that both of the above programs must be compiled with the -cp POINTER compatibility option.

On Windows the calloc() and free() functions are in MSVCRT.DLL which must be preloaded by specifying iscobol.shared\_library\_list=msvcrt.dll.

For example, the following test program allocates and frees 100 bytes:

```
id division.program-id. test.data division.working-storage section.77 mem-ptr usage pointer.procedure division.main-logic. call "CBL_ALLOC_MEM" using mem-ptr, by value 100, by value 0. call "CBL_FREE_MEM" using by value mem-ptr.
```

To compile and run:

iscc -cp CBL_ALLOC_MEM.cbliscc -cp CBL_FREE_MEM.cbliscc -cp	test.cbljava	-Discobol.shar
ed_library_list=msvcrt.dll TEST		
Online URL: <a href="https://support.veryant.com/phpkb/article.php?id=15">https://support.veryant.com/phpkb/article.php?id=15</a>		
Offine OKL. https://support.veryant.com/phpko/article.php?id=13		