

Dear Friends,

We are the Members of the "Garbage Collection Team for the C Programming Language". We are the students belonging to the Computer Science and Engineering Department of Mepco Schlenk Engineering College (www.mepcoeng.ac.in), Madurai Kamaraj University, Tamil Nadu, India.

We have implemented a *garbage collector for the C programming language* which works on the Unix and Linux platforms

As a part of this download in addition to this file we have three files `stack.c` , `Heap.c` and `Data.c`. All of these programs use the standard allocation routines (`malloc`) for allocating memory and fail to collect the accumulated garbage. Soon the system runs out of memory and will fail to do allocate if asked for more memory.

You can use our collector for the three C programs (test case) discussed above and get to know how effective our collector is.

To use our Garbage collector for any C program, do the following

steps

1) Download the file `GC.h`, which is available as a free download along with this file from www.mepcoeng.ac.in

2) Have the downloaded file in the same directory as the C program.

3) Insert the statement

```
#include "GC.h"
```

in your C program

4) Then,insert the statement

```
#define malloc GC_malloc
```

in your C program.

5) Delete all statements that correspond to the deallocation of allocated memory. That is remove all " free(ptr) " statements from your C program

Also included as the free download is a power-point presentation that gives you an idea what our project and garbage collection are all about.

We have tested our code in systems running Free BSD UNIXand Redhat Linux.

Feel free to contact us at if you need more help : gc_for_c@yahoo.co.in

Have a nice day.

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