

Why Dynamic Memory Allocation:

`int arr[5] = {1, 2}; // 1, 2, 0, 0, 0`

default
 $4 + 4 + 4 = 12$

allocate

So, we provide runtime memory space to save memory space & increase program efficiency. (Dynamic Memory Allocation)

#include <stdlib.h> ✓

① malloc → Memory Allocation
`malloc (size);`

② calloc → Continuous / Contiguous Memory Allocation
`calloc (no of elements, size);`

③ realloc → Reallocate
`realloc (ptr, new size);`

④ free → Free the Memory
`free (ptr);`

* Malloc, Calloc, Realloc

`malloc (size) →`
return `void *ptr` so (type cast)

`calloc (n, size) →`

= int — 4 default ←

= float — 4

= char — 1

= double — 8

No data type check

[32 bytes]



(garbage) junk values

(32 bytes)

