

Why Dynamic Memory Allocation:

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

default
4 + 4 + 0 = 12
wasted bytes

So, we allocate provide runtime memory 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 → Reallocates on
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
= float — 4
= char — 1
= double — 8

No data type check
[32 bytes]



(garbage) junk values

(32 bytes)

