


Memory leak → when new memory is allocated dynamically but never deallocated

A type of resource leak that occurs when a computer program incorrectly manage memory allocations in such a way that memory which is no longer needed is not released.

A memory leak reduces the performance of the computer by reducing the amount of available memory.

```
int *a = new int;  
*a = 2;  
cout << *a;    => 2  
  
int b = 5;  
a = &b;  
cout << *a;    => 5
```

} memory leak

delete a; ← It will not leak the memory

deallocates the memory that was allocated for the integer pointed to by a;

After this line, a is still a pointer, but it no longer points to valid memory.

Dereference or use 'a' in any way after this point as it could lead to undefined behaviour.