

C++ delete keyword issu



delete keyword not working i c++

If the `delete` keyword is **not working** in your C++ program, it could be due to several reasons. Here's a checklist to help you debug the issue:

✓ Basic Syntax of `delete`

Make sure you're using it correctly:

```
cpp
int* ptr = new int;
delete ptr; // Correct usage
```

For arrays:

```
cpp
int* arr = new int[10];
delete[] arr; // Use delete[] for arrays!
```

🔍 Common Issues and Fixes

1. ❌ Deleting Memory Not Allocated with `new`

You can only use `delete` on memory allocated with `new`. For example:

```
cpp
int a = 10;
int* ptr = &a;
delete ptr; // ❌ Undefined behavior!
```

✓ **Fix:** Only `delete` pointers created with `new`.

2. ⚠️ Using `delete[]` on Non-Array Allocation (or vice versa)

```
cpp
int* ptr = new int;
delete[] ptr; // ❌ Incorrect!
```

✓ Use `delete` for `new`, and `delete[]` for `new[]`.

3. Double Deletion

```
cpp

int* ptr = new int;
delete ptr;
delete ptr; // ❌ Undefined behavior!
```

✅ Set pointer to `nullptr` after deleting:

```
cpp

delete ptr;
ptr = nullptr;
```

4. Use-after-delete

Trying to use memory after it is deleted causes issues:

```
cpp

int* ptr = new int(5);
delete ptr;
std::cout << *ptr; // ❌ Undefined behavior
`
```