Copilot

In C, the `void main()` function is often misunderstood. Let me clarify it for you:

1. **`int main()`**:
   - This is the standard and recommended way to define the `main` function in C.
   - It indicates that the `main` function takes no arguments.
   - The return type is `int`, which means it should return an integer value.
   - The purpose of returning an integer value from `main` is to provide an exit status to the operating system. Typically, a return value of `0` indicates successful execution, while other values indicate errors or abnormal termination[1].
2. **`void main()`**:
   - Using `void main()` is **not** standard C.
   - It indicates that the `main` function does not return any value.
   - The C standard does not define the behavior of `void main()`, and its usage can lead to unpredictable program behavior.
   - Some older compilers might accept it, but it's best to avoid this form.
   - Stick to `int main()` or `int main(int argc, char **argv)` for portability and correctness[1] [3].

In summary, always use `int main()` for your C programs. It ensures consistency, compatibility, and adherence to the language standard. 😊

Source(s)

1. c - How does int main() and void main() work? - Stack Overflow
2. What Is A Void Main() In The C Programming Language?
3. What is void main () into main and what it does? - UrbanPro
4. Difference between void main and int main in C/C++
5. Difference between void main and int main in C/C++?