In the <u>C programming language</u> (after 99 standard), a new keyword is introduced known as restrict.

- restrict keyword is mainly used in pointer declarations as a type qualifier for pointers.
- It doesn't add any new functionality. It is only a way for programmer to inform about an
 optimizations that compiler can make.
- When we use restrict with a pointer ptr, it tells the compiler that ptr is the only way to access the
 object pointed by it and compiler doesn't need to add any additional checks.
- If a programmer uses restrict keyword and violate the above condition, result is undefined behavior.
- restrict is not supported by C++. It is a C only keyword.

Program

```
#include <stdio.h>
// Note that the purpose of restrict is to
// optimization
void use(int* a, int* b, int* restrict c)
    *a += *c;
    *b += *c:
int main(void)
    int a = 50, b = 60, c = 70;
    use(&a, &b, &c);
    printf("%d %d %d", a, b, c);
    return 0;
```



Thank you for watching!

Please leave us your comments.