# ifndef作用

## ifndef作用

a.h

```
#include <iostream>
#include "b.h"

int i = 5;
Boy b;

struct Girl
{
    int age;
};
```

b.h

```
#include <iostream>

struct Boy
{
    int age;
};
```

main.cpp

```
#include "a.h"
#include "b.h"
#include <iostream>

int main(int argc, char const *argv[])
{
    /* code */
    Boy c;
    c.age = 10;
    Girl g;
    g.age = 20;
    return 0;
}
```

报错:

```
In file included from main.cpp:2:
b.h:3:8: error: redefinition of 'struct Boy'
 struct Boy
        ^~~
In file included from a.h:2,
                 from main.cpp:1:
b.h:3:8: note: previous definition of 'struct Boy'
 struct Boy
        ^~~
```

改正:

b.h中

```
#ifndef PERSON_H
#define PERSON_H
#include <iostream>

struct Boy
{
    int age;
};
#endif
```