Phill-CPP-0426

```
#include <iostream>
using namespace std;
/*
* Reserve_seats
* description:
* arguments:
* @param arr1: type,xxxx, xxx
* return :
int reserve_seats(int *arr1,int x,int y,int size,int numbers){
 // cout << *xx <<endl; //<<---- 2 取值
 //cout << xx <<endl; //<<---- 0x7ffff3de4540 取位置
 for(int i=0;i<numbers;i++){</pre>
    int *xx=arr1+(x*size+i);
     //cout <<xx <<endl;</pre>
     if(*xx==0 && numbers<=4){
       *xx=1;
       //cout << *xx <<endl;
 }
     //cout << *xx <<endl;</pre>
for(int j=0;j<4;j++){
     // cout <<arr1[j];
 cout <<endl;
  return *arr1;
}
int display_seating(int *arr1,int x, int y)
{
 int *reserve_arr1=arr1;
for(int j=0;j<4;j++){
    cout <<"\t"<<reserve_arr1[j];</pre>
}
 cout <<endl;
  cout << "Your seats alreay booked!!" <<endl ;</pre>
```

Phill-CPP-0426

```
int main()
  // 計數類
 int x;
  int y;
  char again;
  int numbers; //default =1
 // 資料類
  int arr1[] = \{0,0,0,0\};
  int size = sizeof(arr1)/sizeof(arr1[0]);
  cout <<"Please input your numbers: ";</pre>
  cin >> numbers;
  cout << numbers << endl;</pre>
  cin >> again;
  if(numbers>4){
    cout << "over range" <<endl;</pre>
  if(numbers<=4){</pre>
    for(int i=0;i<numbers;i++){</pre>
     y=i;
    // cout << x <<y <<endl;
  reserve_seats(arr1, x, y, size, numbers);
  display_seating(arr1,x,y);
while(again=='y'){
   cout << "Would you like to do it again (y/n)? " <<again <<endl;
}
// cout << "Goodbye!";</pre>
  return 0;
}
```

?條件運算子

用於簡潔的條件判斷

```
#include <iostream>
using namespace std;

int main()
{
    bool flag=true;
    //xxxx
    //xxxx
    //xxxx
    //xxxx
    //xxxx
    //flag= false;
    string a = (flag)?"something happened":"normal";
    cout << a <<endl;
    return 0;
}</pre>
```

練習

輸入一個年齡

印出 青少 成人 老人

Loop

- for loop
- while
- do...while

for → 以條件為基礎的迴圈

```
#include <iostream>
using namespace std;

int main()
{
    int i;
    for(i=0; i<=10; i++){ //三段式:前 中 後
        cout <<i <<endl;
    }
    return 0;
}
```

```
#include <iostream>
using namespace std;

int main()
{
   for(int i=0; i<=10; i++){ // scope
      cout <<i <<endl;
   }

   return 0;
}</pre>
```

```
#include <iostream>
using namespace std;

int main()
{
   for(int i=10; i>=0; i--){ // scope
      cout <<i <<endl;
   }

   return 0;
}</pre>
```

```
#include <iostream>
using namespace std;
int main()
```

```
for(int i=0; i<=10; i+=2){ // scope
   cout <<i <<endl;
}

return 0;
}</pre>
```

practice: 判斷質數

- 1, 自己 沒有人能除盡
- 輸入 → 是不是質數
- %
- 嘗試錯誤法

for 三段式