十月三十號資料結構作業

程式碼:

```
#include <iostream>
 using namespace std;
□void print arr(int* arr, int size) {
     for (int i = 0; i < size; i++)
         cout << arr[i] << " ";
     cout << end1;
□void change_arr(int*& arr, int size, int new_size) {
     int* new_arr = new int[new_size];
     copy(arr, arr + size, new_arr);
     for (int i = size; i < new size; i++)
         new_arr[i] = i + 1;
     arr = new_arr;
⊡int main() {
     int size = 3;
     int* arr = new int[size];
     for (int i = 0; i < size; i++) {
         arr[i] = i + 1;
     cout << "一開始的陣列:" << end1;
     print_arr(arr, size);
     int new_size = size * 2;
     cout << "擴充後的陣列" << endl;
     change_arr(arr, size, new_size);
     print_arr(arr, new_size);
     return 0;
```

執行結果:



拓展想法:

我覺得 Size*=2 較好,雖然會占用較大的記憶體空間,但不需要像 size+=2 一直重複呼叫。