P12 2.1-4 二进制加法

```
#include <iostream>
#include <string>
using namespace std;
void BinarryAdd(int A[],int B[],int length,int C[]){
  int flag = 0;
  for (int i = length-1; i >=0; i--){
    C[i+1] = A[i] + B[i] + flag;
    int key = C[i+1] % 2;
    if (C[i+1] >= 2){
      C[i+1] = key;
      flag = 1;
    }
    else{
      flag = 0;
    }
  }
  if (flag == 1){
    C[0] = 1;
  }
}
int main(){
  int n;
  cout << "输入二进制位数：" << endl;
  cin >> n;
  int *arrays = new int[n];
  int *arrays1 = new int[n];
  cout << "输入第一个" << n << "位二进制数：" << endl;
  int j = 0;
  while (j < n){
    cin >> arrays[j];
    j++;
  }
  cout << "输入第二个" << n << "位二进制数：" << endl;
  j = 0;
  while (j < n){
    cin >> arrays1[j];
    j++;
```

```
    }
    int *result = new int[n + 1];
    result[0] = 0;
    BinarryAdd(arrays, arrays1, n, result);
    if (result[0] == 1){
      j = 0;
      while (j < n + 1){
        cout << result[j] << " ";
        j++;
      }
    }
    else{
      j = 1;
      while (j < n + 1){
        cout << result[j] << " ";
        j++;
      }
    }
    delete arrays, arrays1, result;
    return 0;
}
```