实验环境:

```
OS:ubuntu 18.1.04 LTS
compiler:c++11,g++
MakeTool:CMake
```

实验原理

此处填写具体原理

实验过程

```
#include <bits/stdc++.h>
using namespace std;
class JobType
public:
    int key, pos, type;
    bool operator<=(JobType a)</pre>
        return key <= a.key;</pre>
    }
};
bool cmp(const JobType& a, const JobType& b)
{
    return a.key <= b.key;</pre>
}
int FlowShop(int n, int *a, int *b, int *c)
{
    JobType jobtype[n + 10];
    for (int i = 0; i < n; ++i)
        jobtype[i].pos = i;
        if (a[i] >= b[i])
             jobtype[i].key = b[i];
            jobtype[i].type = 1;
        } else
             jobtype[i].key = a[i];
             jobtype[i].type = 0;
        }
    }
    sort(jobtype, jobtype + n, cmp);
```

```
int j = 0, k = n - 1;
    for (int i = 0; i < n; ++i)
        if (jobtype[i].type)
            c[k--] = jobtype[i].pos;
        else
            c[j++] = jobtype[i].pos;
    j = k = 0;
    for (int i = 0; i < n; ++i)
        j += a[c[i]];
        k = max(j + b[c[i]], k + b[c[i]]);
    return k;
}
int main()
{
    int n;
    int *a, *b, *c;
    cin >> n;
    a = new int[n + 10];
    b = new int[n + 10];
    c = new int[n + 10];
    for (int i = 0; i < n; ++i)
        cin >> a[i];
    for (int i = 0; i < n; ++i)
        cin >> b[i];
    cout << FlowShop(n, a, b, c) << endl;</pre>
    for (int i = 0; i < n; ++i)
        cout << c[i] << " ";
    return 0;
}
```

运行结果

input:

```
4
3 4 8 10
6 2 9 15
```

output:

```
38
0 2 3 1
```