

```
// sample6_7_1cio.cpp : コンソール アプリケーションのエントリ ポイントを定義します。
```

```
//
```

```
#include "stdafx.h"
```

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
void qSort( double * d, int Lb, int Ub ){
```

```
    if (Lb < Ub){
```

```
        int p = (Lb + Ub) / 2;
```

```
        double c = d[p];
```

```
        int i = Lb;
```

```
        int j = Ub;
```

```
        do {
```

```
            while (d[i] < c) i++;
```

```
            while (c < d[j]) j--;
```

```
            if (i <= j){
```

```
                double v = d[i];
```

```
                d[i] = d[j];
```

```
                d[j] = v;
```

```
                i++;
```

```
                j--;
```

```
            }
```

```
        } while (i <= j);
```

```
        qSort(d, Lb, j);
```

```
        qSort(d, i, Ub);
```

```
    }
```

```
    return;
```

```
}
```

```
int _tmain(int argc, _TCHAR* argv[])
```

```
{
```

```
    cout << "基準値 = ";
```

```
    double c;
```

```
    cin >> c;
```

```
    double x[1000];
```

```
    int n = -1;
```

```
    do {
```

```
        n++;
```

```
        cout << "x[" << n << "] = ";
```

```
        cin >> x[n];
```

```
        if (x[n] < c) break;
```

```
    } while (true);
```

```
    cout << "入力データ..." << endl;
```

```
    for (int i = 0; i < n; i++)
```

```
        cout << "x[" << i << "] = " << x[i] << endl;
```

```
    qSort( x, 0, n-1 );
```

```
    cout << "整列後..." << endl;
```

```
    for (int i = 0; i < n; i++)
```

```
        cout << "x[" << i << "] = " << x[i] << endl;
```

```
    cout << endl << "何か文字を入力して終了。" << endl;
```

```
    string s;
```

```
    cin >> s;
```

```
    return 0;
```

```
}
```