

Answer on Question#39495- Programming, C++

1. Function called `separate_index` that split the array into two parts, one for even index and the other for odd index then sort them.

Solution.

```
#include <iostream>

using namespace std;

int separate_index(int* c,int n);
int main(int argc, char* argv[])
{
    int C[]={1,2,3,4,5,6,9,11,13,15,19,17,1,3,3,3};
    cout<<"Array for separation:"<<endl;
    for(int i=0; i<sizeof(C)/sizeof(C[0]); i++){cout<<C[i]<<" ";}

    separate_index(C,sizeof(C)/sizeof(C[0]));
    cin.get();

return 0;
}

int separate_index(int c[], int n)
{
    int *A=new int[n/2];
    int *B=new int[n/2];

    //separation
    for(int i=0,j=0; i<n; i++)
    {
        if(i%2==0)
        {A[j]=c[i];}
        else{B[j]=c[i];j++;}
    }

    //sorting
    for (int i = 0; i < n/2; i++)
    {
        for (int j = i+1; j < n/2; j++)
        {
            if (A[i] > A[j])
            {
                int buf = A[i];

                A[i] = A[j];
                A[j] = buf;
            }
        }
    }

    for (int i = 0; i < n/2; i++)
```

```

{
    for (int j = i+1; j < n/2; j++)
    {
        if (B[i] > B[j])
        {
            int buf = B[i];
            B[i] = B[j];
            B[j] = buf;
        }
    }
}

cout<<endl<<endl;
cout<<"The first array:"<<endl;
for(int i=0; i<n/2; i++){cout<<A[i]<<" ";}
cout<<endl<<endl<<"The second array:"<<endl;
for(int i=0; i<n/2; i++){cout<<B[i]<<" ";}

delete []B;
delete []A;

return 0;
}

```

```

C:\Enterprise\Uchet\Qq\Debug\Qq.exe
Array for separation:
1 2 3 4 5 6 9 11 13 15 19 17 1 3 3 3
The first array:
1 1 3 3 5 9 13 19
The second array:
2 3 3 4 6 11 15 17 _

```