

Code:

```
// Write a program to implement the CLOOK Disk Scheduling Policy
```

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main() {
```

```
    int n, head, pos, min_index, max_index, total_seek = 0;
```

```
    cout << "Enter the number of disk requests: ";
```

```
    cin >> n;
```

```
    int req[n];
```

```
    cout << "Enter the disk requests: ";
```

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

```
        cin >> req[i];
```

```
    cout << "Enter the initial position of head: ";
```

```
    cin >> head;
```

```
    min_index = max_index = 0;
```

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

```
        if (req[i] < req[min_index])
```

```
            min_index = i;
```

```
        if (req[i] > req[max_index])
```

```
            max_index = i;
```

```
    }
```

```
    sort(req, req + n);
```

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

```
        if (head < req[i]) {
```

```
            pos = i;
```

```
            break;
```

```
        }
```

```
    }
```

```
    cout << "Seek Sequence: " << head << " ";
```

```
    for (int i = pos; i < n; i++) {
```

```
        cout << req[i] << " ";
```

```
        total_seek += abs(req[i] - head);
```

```
        head = req[i];
```

```
    }
```

```
    for (int i = 0; i <= pos - 1; i++) {
```

```
        cout << req[i] << " ";
```

```
        total_seek += abs(req[i] - head);
```

```
    head = req[i];  
}  
  
cout << "\nTotal number of seek operations: " << total_seek << endl;  
return 0;  
}
```

Output:

Enter the number of disk requests: 9

Enter the disk requests: 86 1470 913 1774 948 1509 1022 1750 130

Enter the initial position of head: 143

Seek Sequence: 143 913 948 1022 1470 1509 1750 1774 86 130

Total number of seek operations: 3363