

Code:

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

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

```
using namespace std;
```

```
int main() {
```

```
    int head, n, range, total = 0;
```

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

```
    cin >> head;
```

```
    cout << "\nEnter the number of requests: ";
```

```
    cin >> n;
```

```
    cout << "\nEnter the range of cylinder: ";
```

```
    cin >> range;
```

```
    int queue[n];
```

```
    cout << "\nEnter the cylinder numbers for the requests: ";
```

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

```
        cin >> queue[i];
```

```
    }
```

```
    cout << "\nThe order of execution of requests:\n";
```

```
    total += abs(head - queue[0]);
```

```
    cout << head << " -> " << queue[0] << endl;
```

```
    for (int i = 1; i < n; i++) {
```

```
        total += abs(queue[i - 1] - queue[i]);
```

```
        cout << queue[i - 1] << " -> " << queue[i] << endl;
```

```
    }
```

```
    cout << "\nTotal head movement: " << total << endl;
```

```
    return 0;
```

```
}
```

Output:

Enter the position of head: 51

Enter the number of requests: 8

Enter the range of cylinder: 200

Enter the cylinder numbers for the requests: 96 185 35 122 16 120 55 57

The order of execution of requests:

51 -> 96

96 -> 185

185 -> 35

35 -> 122

122 -> 16

16 -> 120

120 -> 55

55 -> 57

Total head movement: 648