Cyclic Sort

It is used to sort a dataset of elements in the range[0, N] which follow a specific pattern.

Time Complexity

Worst-case : O(N)

```
void cyclicSort(int[] array)
    {
        int i=0;
        while(i<array.length)
            {
                int correctIndex = array[i];
                if(i!=correctIndex)
                    swap(array, i, correctIndex);
                else
                    i++;
            }
    }
void swap(int[] array, int index1, int index2)
    {
        int temp = array[index1];
        array[index1] = array[index2];
        array[index2] = temp;
    }
```