PSEUDOCODE:

Gnomesort(a[]):

index=0

while index<a.length:

if (index == 0 or a[index] >= a[index-1]):

index= index + 1

else:

temp=a[index]

a[index] = a[index-1]

a[index-1] = temp

index= index – 1

IMPLEMENTATION:

#include <iostream>

using namespace std;

//gnome sort

void gnomeSort(int arr[],int n)

{

int i = 0;

while (i < n)

{

if (i == 0||arr[i] >= arr[i- 1])

{ i++; } //index incremented

else

{ //swapping

int temp = arr[i];

arr[i] = arr[i-1];

arr[i-1] = temp;

i--; //index decremented

}

}

}

//print the array

void printArray(int arr[],int n)

{

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

cout << arr[i] << " ";

cout << endl;

}

int main()

{

int arr[] = { 5, 3, 2, 4 };

int n = sizeof(arr) / sizeof(arr[0]);

cout << "Unsorted array: ";

printArray(arr,n);

gnomeSort(arr,n);

cout << "Sorted array: ";

printArray(arr,n);

return 0;

}