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GOPIKRISHNA V

52

S3 CSE A

Quick Sort

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import java.util.\*;

public class pgm12

{

public static void quickSort(String A[], int p, int r)

{

if (p < r)

{

int q = partition (A, p, r);

quickSort (A, p, q - 1);

quickSort (A, q + 1, r);

}

}

public static int partition(String A[], int p, int r)

{

String x = A[r];

int i = p - 1;

for (int j = p; j <= r - 1; j++)

{

if (A[j].compareToIgnoreCase(x) <= 0)

{

i = i + 1;

String temp = A[i];

A[i] = A[j];

A[j] = temp;

}

}

String temp = A[i + 1];

A[i + 1] = A[r];

A[r] = temp;

return i + 1;

}

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

System.out.print("Enter the limit = ");

int n = sc.nextInt();

sc.nextLine();

String A[] = new String[n];

System.out.print("Enter the Values (String)\n");

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

{

A[i] = sc.nextLine ();

}

System.out.println("\nBefore quick sort >> ");

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

{

System.out.print(A[i]+" | ");

}

System.out.print("\n");

quickSort(A, 0, n - 1);

System.out.println("\nAfter quick sort >> ");

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

{

System.out.print(A[i]+" | ");

}

System.out.print("\n");

}

}

**OUTPUT**



